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OM nucleic - nucleic search, using sw model

Run on: June 17, 2005, 19:35:47 ; Search time 968.901 Seconds
(without alignments)
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Gapop 10.0 , Gapext 1.0

Searched: 6054689 seqs, 3103772919 residues

Total number of hits satisfying chosen parameters: 12109378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
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Listing first 45 summaries

Database : Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	1334.4	86.3	1598	13	US-10-051-307-2
6	1334.4	86.3	1598	21	US-10-903-948-2
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RESULT 1
US-10-051-307-3
; Sequence 3, Application US/10051307
; Publication No. US20020170095A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/051.307
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1546
; TYPE: DNA
; ORGANISM: Solanum tuberosum
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1248)
; OTHER INFORMATION: a, t, c or g
US-10-051-307-3

Query Match 99.9%; Score 1545; DB 13; Length 1546;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1546; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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c 43	102.4	6.6	869	19	US-10-437-963-15621	Sequence 15621, A
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; Sequence 3, Application US/10903948
; Publication No. US20050005324A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/903,948
; CURRENT FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US/10/051,307
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1546
; ORGANISM: Solanum tuberosum
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1248)
; OTHER INFORMATION: a, t, c or g
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Query Match 99.9%; Score 1545; DB 21; Length 1546;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1546; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
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RESULT 3

US-10-051-307-1
; Sequence 1, Application US/10051307
; Publication No. US20020170095A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/051,307
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1595
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-051-307-1

Query Match 88.1%; Score 1362.4; DB 13; Length 1595;
Best Local Similarity 94.1%; Pred. No. 5.4e-287;
Matches 1460; Conservative 0; Mismatches 82; Indels 9; Gaps 4;

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Db 828 TTATTTTATGAATATAGCTATAGTATACAACTGAATCTTTATTTGGTGTAACTTTGGACAT 887
Qy 841 ATAAACTCTGATCGTGAACGAACTTTTCTTAAACTTAAATATATAAAGCAGCTATTTT 900
Db 888 ATAAACTCTGATCGTGAACGAACTTTTCTTAAACTTAAATATATAAAGCAGCTATTTT 947
Qy 901 AATATTTTTCGTGCGCAAGTTTCTTGCATATCTTATCTATGCCCAATTTTACITTTATCG 960
Db 948 CAGATTTTTCGTGCGCAAGTTTCTTGCATATCTTATCTATGCCCAATTTTACITTTATCG 1007
Qy 961 TTTCTAGCTCTTCTAGTACGCGTTTGAACATATAAATAATCAATAAATTTGAAAGTAAATAAT 1020
Db 1008 TTTCTAGCTCTTCTAGTACGCGTTTGAACATATAAATAATCAATAAATTTGAAAGTAAATAAT 1067
Qy 1021 AG---TTTTTTTTCATATTTACTCGTATGGATCAATTTGTTAGATCAATGTGAATATACAA 1077
Db 1068 AGTTTTTTTTTTCATATTTACTCGTATGGATCAATTTGTTAGATCAATGTGAATATACAA 1127
Qy 1078 ATCATCTCGATTTTAAATATCAATATTTCTGATGATGGGAACTCTATGTTGATTCGT 1137
Db 1128 ACCATCTCGATTTTAAATATCAACACCTTCTGCCAAGGGAAGTCTAT---GTGATCCGT 1184
Qy 1138 GACAAGGTTTGAATTTTCTAGCTGGAATGGAGTGCACAACTTTTGTAGTGCAAATATCT 1197
Db 1185 GACAAGGTTTGAATTTTCTAGCTGGAATGGAGTGCACAACTTTTGTAGTGCAAATATCT 1244
Qy 1198 ATTAAGAGAACCCCTATTTGATGCAAAAGTCAATAAA--TATTTAATATCATNCTTTAT 1255
Db 1245 ATTAAGAGAACCCCTATTTGATGCAAAATCTATTTAAGAACCCCTATTCATGCTTTAT 1304
Qy 1256 TATTTTACGATCGGAGATGATACATTTTCTAATTTAAATATAAATTTGGAAGGAATTTGAT 1315
Db 1305 TATTTTACGATCGGAGATGATATATTTTACTAATTTAAATATAAATTTGGAAGGAATTTGAT 1364
Qy 1316 CGCAAGTCTCAAGCTTATCGTCGATCCACATTTCCCTTAACGTTAGTATGGCTGCTTTT 1375
Db 1365 CGCAAGTCTCAAGCTTATCGTCGATCCACATTTAAATATAAATTTAGTATGGCTGCTTTT 1424
Qy 1376 AGAGAAACAAGTGAATCATGTATATTTTGTAGTTTTCCTCTATCTCTATAAATATCTATAT 1435
Db 1425 AGAGAAACAAGTGAATCATGTATATTTTGTAGTTTAAATATCTCTCTATAAATATCTATAT 1484
Qy 1436 ATACCTCTAAACCTAAATGATCTTAACAACAATAATAAATTTAGATTTCTTTTAAAGAAA 1495
Db 1485 ATACCTCTAAACCTAAATGATCTTAACAACAATAATAAATTTAGATTTCTTTTAAAGAAA 1544
Qy 1496 TTGCAGATTTAAATGGAGGCAAAATAGTCTATGTTGAAAGTTGGTTGCTTTC 1546
Db 1545 TTGCAGATTTAAATGGAGGCAAAATAGTCTATGTTGAAAGTTGGTTGCTTTC 1595
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RESULT 5

US-10-051-307-2

; Sequence 2, Application US/10051307

; Publication No. US20020170095A1

; GENERAL INFORMATION:

```
; APPLICANT: DALI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/051,307
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1598
; TYPE: DNA
; ORGANISM: Solanum tuberosum
; US-10-051-307-2
```

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Query Match      86.3%; Score 1334.4; DB 13; Length 1598;
Best Local Similarity 93.8%; Pred. No. 7e-281;
Matches 1456; Conservative 0; Mismatches 87; Indels 10; Gaps 6;
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Qy 1 ATCTTTGTTTGAATAAATTCGAAAAAGAACGTAGGACCAACATGGACCTTGGGTGCAACAAT 60
Db 49 ATCTTTGTTTGAATAAATTCGAAAAAGAACGTAGGACCAACATGGACCTTGGGTGCAACAAT 108
Qy 61 ATTGTTGTCCTCCAAATGTGGTACAAAGGATTTGTACATCTCTCGGGTACTTTAAGCTGAC 120
Db 109 ATTGTTGTCCTCCAAATGTGGTACAAAGGATTTGTACATCTCTCGGGTACTTTAAGCTGAC 168
Qy 121 TAGGACATTCACCATTTATTTTGGCGTGCAATTTGAATTTGGTGGCATTTCCCTCCACTTG 180
Db 169 TAGGACATTCACCATTTATATTTTGGCGTGCAATTTGAATTTGGTGGCATTTCCCTCCACTTG 228
Qy 181 GATTAGTCGGGGGAAAGTCATCGGTATATTTAAATCCATCAACTAAGAAATGTCACAGA 240
Db 229 GATTAGTCGGGGGAAAGTCATCGGTATATTTAAATCCATCAACTAAGAAATGTCACAGA 288
Qy 241 AATCTAAGTTTGTCAACTGTCGAGCGTACTCGGCTAGGGTGTGTTGGGGGTTTACCCC 300
Db 289 AATCTAAGTTTGTCAACTGTCGAGCGTACTCGGCTAGGGTGTGTTGGTGGTTTGGCCC 348
Qy 301 ACCGGTGTGACTGAGGACACCAACCAATCACAGTCTGACGAACTCTACAGGAC 360
Db 349 ACCGGTGTGACTGAGGACACCAACCAATCACAGTCTGACGAACTCTACAGGAC 408
Qy 361 CATCGAAGTTTACATCCAGTACGACCCCATATAGTGCCTAGTGTGCGGCTAGGCGCAT 420
Db 409 CACCGAAGTTTACATCCAGTACGACCCCATATAGTGCCTAGTGTGCGGCTAGGCGCAT 468
Qy 421 CAATGACCCACGTTTGGCCTCGATCGAGACGTCGGCCACCGCCTATTCGGGTGCGATGCTG 480
Db 469 CAATGACCCACGTTTGGCCTCGATCGAGACGTCGGCCACCGCCTATTC--GGGTGCGTCCG 527
Qy 481 CCAGACGGTGTATGACAGTGTGTTG--CGTACTCTGATAGTGGCAGCATAAAGTGAAGT 538
Db 528 CCCAAACGATGTATGACAGTGTGTTGGCGGTACTCTCGATAGTACAGCATAAAGTGAAGT 587
Qy 539 CACAAAGCAAGAGGAGGAGAAACAAAGAAAGATCTCAAGTAGCCCATGTTGTTGGAAT 598
Db 588 CACAAAGCAAGAGGAGGAGAAACAAAGAAAGATCTCAAGTAGCCCATGTTGTTGGAAT 647
Qy 599 TTATATGTGGACAAATTTATTTTGGTACTTTTATATATAGGGATATGCGGCTTTTGGCAC 658
Db 648 TTATATGTGGACAAATTTATTTTGGTACTTTTATATATAGGGATATGCGGCTTTTGGCAC 707
Qy 659 TATGGATATTAATCGTATTTATATAACAATATCATCTTTGACTTAATTTATAACAAATAAT 718
Db 708 TACGGATATTAATCGTATTTATATAACAATATCATCTTTGACTTAATTTATAACAAATAAT 767
Qy 719 ATTACAATATGTTTGGTAAACGTTGAGGTGGCAAAATGTTATAGAGCCGCTTAATTT 778
Db 768 ATTACAATATGTTTGGTAAACGTTGAGGTGGCAAAATGTTATAGAGCCGCTTAATTT 827
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QY 779 AATTATTTTATGAATATAGACTATAGTTTACAAGTGAACCTTTATTTGGTGATACTTGGAC 838
Db |||||
QY 828 AATTATTTTATGAATATAGCTTATAGTTTACAAGTTAACTTTATTTGGTGATACTTGGAC 887
Db |||||
QY 839 ATATTAACCTCTGATCGTGACCGAAGTTTCTTAAACATAATATATAAAGCAGCTATT 898
Db |||||
QY 888 ATATAAAGCTCTGAACGTGACCGAATTTTCTTAAACATAATATATAAAGCAGCTATT 947
QY 899 TTAATATTTTTCGTGCGCAAGTTTCTTGACATCTTATCTATGCCCCATTTTACCTTTTAT 958
Db |||||
QY 948 TTACATATTTTTCGTGCGCAAGTTTCTTGACATCTTATCTATGCCCCATTTTACCTTTTAT 1007
QY 959 CGTCTAGCCTTCTAGGTACGCGTTTGAACATAAATAATCATATAAAGTTGAAAGTAAAGA 1018
Db |||||
QY 1008 CGTCTAGCCTTCTAGGTACAGTTTGAACATAAATAATCATATAAAGTTGAAAGTAAAGA 1067
QY 1019 TTAG--TTTCTTATATTTTCTGATGATGATCTTGTAGATCAATGTGAATATATAC 1075
Db |||||
QY 1068 TTAGTTTCTTATATTTTCTGATGATGATCTTGTAGATCAATGTGAATATATAC 1127
QY 1076 AATCATTTCTGATTTTAAATCATAACTATTTCTGATGATGATGATGATGATGATGATGAT 1135
Db |||||
QY 1128 AATCATTTCTGATTTTAAATCATAACTATTTCTGATGATGATGATGATGATGATGATGAT 1186
QY 1136 GTGCAAGTGTGATTTTATTTCTAAGTCTGATGATGATGATGATGATGATGATGATGAT 1195
Db |||||
QY 1187 GTGCAAGTGTGATTTTATTTCTAAGTCTGATGATGATGATGATGATGATGATGATGAT 1245
QY 1196 CTATTAAAGAACCCCTTATTTGATGCAAAAGTCAATAA--TATTTAATATCATNCTTTA 1253
Db |||||
QY 1246 CTATTAAAGAACCCCTTATTTGATGCAAAATATCTATTAAAGAACCCCTTATTCATCTTTA 1305
QY 1254 TTTATTTTACATCGGACGATGATATTTTACTTAAATTAATTAATTAATTAATTAATTAAT 1313
Db |||||
QY 1306 TTTATTTTACATCGGACGATGATATTTTACTTAAATTAATTAATTAATTAATTAATTAAT 1365
QY 1314 ATCGCAAGTCTATCAAGCTTATCGTGCATCCACATTTCCCTTAAAGTATGATGATGATGAT 1373
Db |||||
QY 1366 ATCGCAAGCTATCAAGCTTATCGTGCATCCACATTTAGATTAACCTTATGATGATGATGAT 1425
QY 1374 TTAGAGAAACAAGTGGATCATGATAATTTAGTTTCCCTTATCTCTTATATAATATCTAT 1433
Db |||||
QY 1426 TTAGAGAAACAAGTGGATCATGATAATTTAGTTTAAAGTAAAGTAAAGTAAAGTAAAGT 1485
QY 1434 ATATACCTCTTAAACATAATGATCTTAAACACACACACACACACACACACACACACACAC 1493
Db |||||
QY 1486 CTATCCCTCTTAAACATAATATCTTAAACACACACACACACACACACACACACACACAC 1545
QY 1494 AATTGCAGAAATTAATGGAGGCAAAATAGTCTATGCTGAAGTTGCTTCTTCTTTC 1546
Db |||||
QY 1546 AATTGCAGAAATTAATGGAGGCAAAATAGTCTATGCTGAAGTTGCTTCTTCTTTC 1598

RESULT 6
US-10-903-948-2
; Sequence 2, Application US/10903948
; Publication No. US20050053241
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIPANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/903,948
; CURRENT FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US/10/051,307
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1598

; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-903-948-2
Query Match 86.3%; Score 1334.4; DB 21; Length 1598;
Best Local Similarity 93.8%; Pred. No. 7e-281;
Matches 1456; Conservative 0; Mismatches 87; Indels 10; Gaps 6;
QY 1 ATCTTTGTTTGAATAAATTTGGAAGAAGACGTAGGACACATGGAGCTTTGGGTGCAACAAAT 60
Db |||||
QY 49 ATCTTTGTTTGAATAAATTTGGAAGAAGACGTAGGACACATGGAGCTTTGGGTGCAACAAAT 108
Db |||||
QY 61 ATTTGTTGCTCCAAATGTGTACAAAGATTTGTATCATCTCCGCGGTACTTTTAAAGCTGAC 120
Db |||||
QY 109 ATTTGTTGCTCCAAATGTGTACAAAGATTTGTATCATCTCCGCGGTACTTTTAAAGCTGAC 168
Db |||||
QY 121 TAGGACATTCACCAATTTATTTGCGGTGCAATTTGAATTTGCGTGGCATTTCCCTCCACTTG 180
Db |||||
QY 169 TAGGACATTCACCAATTTATTTGCGGTGCAATTTGAATTTGCGTGGCATTTCCCTCCACTTG 228
QY 181 GATTAGTCGGGGCGAAAGTCAATCGGTATATTAAATCCATCAACTAAAGAAATGTCCCGAGA 240
Db |||||
QY 229 GATTAGTCGGGGCGAAAGTCAATCGGTATATTAAATCCATCAACTAAAGAAATGTCCCGAGA 288
QY 241 AATCTAAGTCTGTGAACCTGGTCCGAGGCGTACTCGGCTAGGCTGTTTGGCGGTTTACCCC 300
Db |||||
QY 289 AATCTAAGTCTGTGAACCTGGTCCGAGGCGTACTCGGCTAGGCTGTTTGGTGGTGGTGGC 348
QY 301 ACCCGTGCATCTGACGAGCACACACCAATCACCAGTCATGCACGAACTCTTACCAGCAC 360
Db |||||
QY 349 ACCCGTGCATCTGACGAGCACACACCAATCACCAGTCATGCACGAACTCTTACCAGCAC 408
QY 361 CATCGAAGTTACATCCAGTACGACCCCATATACGTCGCCATCGTAGTGCCTTACGCGCAT 420
Db |||||
QY 409 CACCGAAGTTACATCCAGTACGACCCCATATACGTCGCCATCGTAGTGCCTTACGCGCAT 468
QY 421 CAATGACCCAGTCTGGCTCGATCGAGACGTGGGCCACCGCTATCGGGGTGCGATGCTG 480
Db |||||
QY 469 CAATGACCCAGTCTGGCTCGATCGAGACGTGGGCCACCGCTATCGGGGTGCGATGCTG 527
QY 481 CCCAGACCGTGTATGGACAGTGTGTTG--CGTACCTCGATAGTGGCAGCATTAAGTGAAGT 538
Db |||||
QY 528 CCCAAACGATGTATGGACAGTGTGTTGGCGGTACCTCGATAGTGCACGACATAAGTGAAGT 587
QY 539 CACAAAGCAGAGAGGAGGAGAAACAAAGAGAGATCTCAAGTAGGCCATGTTGTTGAAT 598
Db |||||
QY 588 CACAAAGCAGAGAGGAGGAGAAACAAAGAGAGATCTCAAGTAGGCCATGTTGTTGAAT 647
QY 599 TTATATGTGGACAAATATTTTGTGCTATTTATATAGGATATGGCGGCTTTTGGCAC 658
Db |||||
QY 648 TTATATGTGGACAAATATTTTGTGCTATTTATATAGGATATGGCGGCTTTTGGCAC 707
QY 659 TATGATATTAATCGTATTTATATAACAATATCATCTTTGACTAATTATAACAATAAT 718
Db |||||
QY 708 TACGATATTAATCGTATTTATATAACAATATCATCTTTGACTAATTATAACAATAAT 767
QY 719 ATTACATATGATTTGGTAAAGTTGAGTGGGCAAAATGTATAGAGCGGCTTATTAAT 778
Db |||||
QY 768 ATTACATATGATTTGGTAAAGTTGAGTGGGCAAAATGTATAGAGCGGCTTATTAAT 827
QY 779 AATTATTTTATGAATATAGACTATAGTTTACAAGTGAACCTTTTATTTGGTGATACTTGGAC 838
Db |||||
QY 828 AATTATTTTATGAATATAGCTTATAGTTTACAAGTTTAACTTTATTTGGTGATACTTGGAC 887
QY 839 ATATAAAGCTCTGATCTGACGGAACCTTTTCTTAAAGTAAATAATATAAAGCAGCTATT 898
Db |||||
QY 888 ATATAAAGCTCTGTAACGTGACGGAATTTTCTTAAAGTAAATAATATAAAGCAGCTATT 947
QY 899 TTAATATTTTTCGTGGCCAAAGTTTCTTGGCATCTATCTATGCGCATTTTACTTTTAT 958
Db |||||
QY 948 TTCACATTTTTCGTGGCCAAAGTCTCTTGCATACCTTATCTATGCGCATTTTACTTTTAT 1007
QY 959 CGTCTAGCCTTCTAGGTACGCGTTTGAACATAAATAATCATATAAAGTTGAAAGTAAAGA 1018

Db 475 CTGGGGCTCTCAACAGCTTTGGACATTTGTCCGTTTATGTCGCGGTACATAGTATCCGAT 416
QY 163 GGCATTTCCCTCCACTTGGATTAGTCGGGCGAAAGTCATCGGTATATTAATCCATCAA 222
Db 415 GGCAGTTC-----GAACTAGTTGGCTTAACTCCATAGGTATGTTAAATCCATCGA 365
QY 223 CTAAGAGAAATGTCAGAGAAATCTAAGTTGTTTGAATCGTCCGAGCGTACTCGGCTAGGG 282
Db 364 CAAAGTGAGATATCGTAGAGTCTAAGTTGTTGAATGTTTCAAAGCGTACTCAGCCACG 305
QY 283 TGTTTGGCGGTTTACCCACCCGGTGCACTGCAGACACCAACAATCAACAGTCATGC 342
Db 304 TGTTTGGTGGTGTCTCCAGCCAGTACATTTGGAGTCCACCACTGCAGTCACCAAGTTTGGC 245
QY 343 ACGAACCTCTACAGCACCATCGAAGTTTACATCCAGTACGAGCCCAATATAGTGCATCG 402
Db 244 ATCGGCCACGACCTGAGGAGTCAAAAGTTTACAATTTGGTCTTACCCCAAAATCCGTGCAATTT 185
QY 403 TAGTGCCCTTAGCGCCTCAATGACCCACGTTTGGCCTCGATCGAGAGCGTCGGCCACCGC 462
Db 184 TAGTGCCCGCCGACATCTAGCTTCCATGATTGGCCAGCATCTAGACGTGGGCCACCTC 125
QY 463 CTATCGGGTTCGATCTGCCAGACGGTGTATGGAAGTGTGTCGATCTACCTCGATAGTGG 522
Db 124 C---AGGGCTTGGCGCAGCCACACGGTGTAACTACATTTGGTTTAGGATTTTGAATGTGG 68
QY 523 CAGCATAAGTGAAGTCAAAAGCAAGAGGGAGAGAAACAAAGAAAGATCTCAAG 578
Db 67 CGGCTGTTGCGGTGGAGATGAGCAAAAGTGGCGAAATATGAAGTAGAGACCAAG 12

RESULT 9

US-09-938-842A-2118/c
; Sequence 2118, Application US/09938842A
; Publication No. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; TITLE OF INVENTION: SAME, AND METHODS OF USE
; FILE REFERENCE: SCRIPT300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 2118
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-2118

Query Match 13.4%; Score 207.2; DB 11; Length 735;
Best Local Similarity 64.6%; Pred. No. 5.6e-35;
Matches 346; Conservative 0; Mismatches 178; Indels 12; Gaps 2;
QY 43 GACCTTGGGTGCAACAAATATTGTTCTCTCCAAATGTGTACAAAGATGTTTACATCTC 102
Db 535 GACCGTTGCTACACAGTATTGGTTCTGTAATACAGTACACGGTGTGTGCATCCAC 476
QY 103 CGGTACTTTAAGTGTAGTACGACATTCACCAATTTATTTTCCGTCGATTAATTTGGT 162
Db 475 CTGGGGCTCTCAACAGCTTTGACATTTGCGTTTATGTCGCGGTACATAGTATCCGAT 416
QY 163 GGCATTTCCCTCCACTTGGATTAGTCGGGCGAAAGTCATCGGTATATTAATCCATCAA 222
Db 415 GGCAGTTC-----GAACTAGTTGGCTTAACTCCATAGGTATGTTAAATCCATCGA 365

QY 223 CTAAGAAATGTCAGAGAAATCTAAGTTGTTGAACTGGTCCGAGCGTACTCGGCTAGGG 282
Db 364 CAAAGTGAGATATCGTAGAGTCTAAGTTGTTGAAATTTGGTTCAAGCGTACTCAGCCACG 305
QY 283 TGTTTGGCGGTTTACCCACCCGGTGCACTGCAGSACACCAACAATCAACAGTCATGC 342
Db 304 TGTTTGGTGGTGTCTCCAGCCAGTACATTTGGAGTCCACCACTGCAGTCACCAAGTTTGGC 245
QY 343 ACGAACCTCTACAGCACCATCGAAGTTTACATCCAGTACGAGCCCAATATAGTGCATCG 402
Db 244 ATCGGCCACGACCTGAGGAGTCAAAAGTTTACAATTTGGTCTTACCCCAAAATCCGTGCAATTT 185
QY 403 TAGTGCCCTTAGCGCCTCAATGACCCACGTTTGGCCTCGATCGAGAGCGTCGGCCACCGC 462
Db 184 TAGTGCCCGCCGACATCTAGCTTCCATGATTGGCCAGCATCTAGACGTGGGCCACCTC 125
QY 463 CTATCGGGTTCGATCTGCCAGACGGTGTATGGAAGTGTGTCGATCTACCTCGATAGTGG 522
Db 124 C---AGGGCTTGGCGCAGCCACACGGTGTAACTACATTTGGTTTAGGATTTTGAATGTGG 68
QY 523 CAGCATAAGTGAAGTCAAAAGCAAGAGGGAGAGAAACAAAGAAAGATCTCAAG 578
Db 67 CGGCTGTTGCGGTGGAGATGAGCAAAAGTGGCGAAATATGAAGTAGAGACCAAG 12

RESULT 10

US-09-770-445-334/c
; Sequence 334, Application US/09770445
; Patent No. US20020023281A1
; GENERAL INFORMATION:
; APPLICANT: Gorlach, Jörn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Kricker, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
; APPLICANT: Hurban, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; TITLE OF INVENTION: thaliana
; FILE REFERENCE: 2023US (PARA-012PRV)
; CURRENT APPLICATION NUMBER: US/09/770,445
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: US 60/178,472
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 999
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 334
; LENGTH: 950
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-770-445-334

Query Match 13.4%; Score 207.2; DB 9; Length 950;
Best Local Similarity 64.6%; Pred. No. 6.3e-35;
Matches 346; Conservative 0; Mismatches 178; Indels 12; Gaps 2;
QY 43 GACCTTGGGTGCAACAAATATTGTTCTCTCCAAATGTGTACAAAGATGTTTACATCTC 102
Db 543 GACCGTTGCTACACAGTATTGGTTCTGTAATACAGTACACGGTGTGTGCATCCAC 484


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QY 241 AATCTAAGTTGTGAACCTGTCGAGCGGTACTCTGGCTAGGCTGTTTGGCGGTTTACCCC 300
    |||||
Db 343 AATCAAGATTGTGAACCTGTTCAAGCGTACTCGGCCAATGTGTGGTGGGTACCAT 284
    |||||
QY 301 ACCCGGTGCACTGCGAGGACACACCAATACCAAGTATGACGAACTCTTACCAAGCAC 360
    |||||
Db 283 AGTTTGGCATTTGGAGGAGACCGTTGCAATACACCGTCTGACACCTGCTCGCCCAAGAC 224
    |||||
QY 361 CATCGAAGTTACATCCAGTACGACCCCATATACGTGCCATCGTAGTCCCTTAGCGGCAT 420
    |||||
Db 223 CATCAAGATTGCAATTTGGTTCGGGCCATATACGGGCTCTGCTGTGCACGTCGACGG 164
    |||||
QY 421 CAATGACCCACCGTTTGGCTCTCATCGAGACGTGCGGCCACCGCTATCGGGGTGATGCTG 480
    |||||
Db 163 TTAAGACCAAGTTTGGCTGAGTTAAGTTGTGCGCGGCCACC---AGCACCGCACGAG 107
    |||||
QY 481 CCCAGACCGTGTATGACAGTTTGGTTCGTPACCTCGATAGTGGCAGCATAGTGAAGTCA 540
    |||||
Db 106 CCCAAACGTTGATGGACAGTTGTTTCGAATAGTGAACACGCGCTGATTTGTTAGTGAA 47
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QY 541 CAAAA 545
    |||
Db 46 AAAGA 42
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RESULT 13

US-10-636-026-4/c

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; Sequence 4, Application US/10636026
; Publication No. US20040111761A1
; GENERAL INFORMATION:
; APPLICANT: Bidnev, Dennis L.
; APPLICANT: Crasta, Oswald R.
; APPLICANT: Duvick, Jon
; APPLICANT: Hu, Xu
; APPLICANT: Lu, Guihua
; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
; Genes and their Uses
; FILE REFERENCE: 5718-90
; CURRENT APPLICATION NUMBER: US/10/636,026
; PRIORITY FILING DATE: 2003-08-07
; PRIOR APPLICATION NUMBER: US/09/589,733C
; PRIORITY FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: 60/140,646
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/162,904
; PRIOR FILING DATE: 1999-11-01
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 875
; TYPE: DNA
; ORGANISM: Helianthus annuus
US-10-636-026-4
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Query Match 11.7%; Score 180.6; DB 19; Length 875;
Best Local Similarity 60.9%; Pred. No. 3.9e-29;
Matches 332; Conservative 0; Mismatches 204; Indels 9; Gaps 2;

QY 1 ATCTTTGTTGAAAAAATGGAAAAAGACGTAGGACCAATGGACCTTTGGGTGCAACAAT 60
    |||||
Db 577 ATCTGGTCTTGA AAAACCTTGATAAATCAGTTGGTCCACAATTTCCAGAGTTGCAACAAT 518
    |||||
QY 61 ATGTGTGCTCCAAATGTGTGTAAGGATTTGATCATCTCTCGGGTACTTTAAGCTGAC 120
    |||||
Db 517 ACTGATCAGTTTGTACACGGTGTGAAGGGTTATTTCACCCCGCAGGACCGGTAACTCAC 458
    |||||
QY 121 TAGGACATTCACATTTATTTGCGGTGTCATTTGAATTCGGTGGCATTTCCCTCCACTTG 180
    |||||
Db 457 CAGGACACTGGCCATTTGATCCGAGTACATGATATCCCGGTGACCC-----AT 404
    |||||
QY 181 GATTAGTCGGGGCGAAGTCTATCGGTATATTAATCCATCACTAAAGAAATGTCCGAGA 240
    |||||
Db 403 TAGAATGGGTCTAAACCACTCGGCACATTTGAATCCGTCACAGAGAAATGTCAAAGA 344
    |||||
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```
QY 241 AATCTAAGTTGTGAACCTGTCGAGCGGTACTCTGGCTAGGCTGTTTGGCGGTTTACCCC 300
    |||||
Db 343 AATCAAGATTGTGAACCTGTTCAAGCGTACTCGGCCAATGTGTGGTGGGTACCAT 284
    |||||
QY 301 ACCCGGTGCACTGCGAGGACACACCAATACCAAGTATGACGAACTCTTACCAAGCAC 360
    |||||
Db 283 AGTTTGGCATTTGGAGGAGACCGTTGCAATACACCGTCTGACACCTGCTCGCCCAAGAC 224
    |||||
QY 361 CATCGAAGTTACATCCAGTACGACCCCATATACGTGCCATCGTAGTCCCTTAGCGGCAT 420
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Db 223 CATCAAGATTGCAATTTGGTTCGGGCCATATACGGGCTCTGCTGTGCACGTCGACGG 164
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QY 421 CAATGACCCACCGTTTGGCTCTCATCGAGACGTGCGGCCACCGCTATCGGGGTGATGCTG 480
    |||||
Db 163 TTAAGACCAAGTTTGGCTGAGTTAAGTTGTGCGCGGCCACC---AGCACCGCACGAG 107
    |||||
QY 481 CCCAGACCGTGTATGACAGTTTGGTTCGTPACCTCGATAGTGGCAGCATAGTGAAGTCA 540
    |||||
Db 106 CCCAAACGTTGATGGACAGTTGTTTCGAATAGTGAACACGCGCTGATTTGTTAGTGAA 47
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QY 541 CAAAA 545
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Db 46 AAAGA 42
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RESULT 14

US-10-424-599-36321/c

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; Sequence 36321, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kowalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; Title of Invention: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; PRIORITY FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 36321
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1956)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_132800C.1
US-10-424-599-36321
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Query Match 11.1%; Score 171.6; DB 18; Length 1956;
Best Local Similarity 59.8%; Pred. No. 5.3e-27;
Matches 329; Conservative 0; Mismatches 209; Indels 12; Gaps 2;

QY 39 CATGACCTTGGGTGCAACAATATTTGTTGCTCCATAATGGTACAAAGGATTTGTACAT 98
    |||||
Db 1290 CTTTGCCCATTTGGTGCAGCAATATCTCATTCCTTTAAACACAGTGCAGGGGTTGTGCAT 1231
    |||||
QY 99 CCTCGGGTACTTTAAGCTGACTAGGACATTTACCATTTATATTTGCCGTGCATTTGAATT 158
    |||||
Db 1230 CCCCAGGTGCCCTTAATATGCGCCCGGCACATGCCCATTTGATATCAGCGCTGCACTGAAT 1171
    |||||
QY 159 GCGTGGCATTTCCCTCCACTTTGGATTAGTCCGGGCGCAAGTATCATCGGTATATAATCCA 218
    |||||
Db 1170 TTGTGACACCCACCG-----TTTAGAGGGTAGAAGTCCATCGGATGTTGNACCG 1120
    |||||
QY 219 TCAACTAAGAAATGTCCAGAAATCTAAGTTGTGTAACCTGGTCGAGGCGTACTCTGGCT 278
    |||||
Db 1119 TCCACCAAGAGATGTCGTAGAAATCTCTGGTTGCAAAATTTGGTTCAACCGCAATTTCCGCA 1060
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QY 279 AGGTTGTTGGCGTTTACCCACCCCGTGCAGTGCAGGACACCAACCAATCACCAGTC 338
Db 1059 AGTGTGTTGGAGAGGACCCCGACGCTTGGCAATTGAGCGCGCGCTGCAGTCTCCCGTT 1000
QY 339 ATGCACGAACCTCTACAGACACCACTCGAAGTTACATCCAGTACGACCCCATATACGTGCC 398
Db 999 TGGCAGCGCGCGCGCGCTGCCATCAAGTTGCACCGGTGCGGCCCCCATATACGGGCC 940
QY 399 ATCGTAGTGGCCCTPAGCGGCATCAATGACCCACCGTTTGGCTCGATCGAGACGTTCGGCCA 458
Db 939 ATGGCAGTGGCCGGGTTTCAACCAGAGGTTCCACGTTTGGCCACGGTCCAGACGCGCGCCT 880
QY 459 CCGCTATCGGGTGCAGTCTGCCACAGCGGTGTATGACAGATTGTTGCGTACCTCGATA 518
Db 879 CCACCCCGGACTCGCGCGGCCACACCGGTGTAGGGGCAATTGTTGACGATCTCGAAG 823
QY 519 GTGCAGCATAGTGAAGTGCACAAAAGCAAGAGGAGGAGAAACAAAGAAAGATCTCAAG 578
Db 822 TTTGCAGCATGATTGTTGCCAAGGTAAGCCCAACGTTAGCAGAGAGCAGTGGCCAAG 763
QY 579 TAGCCCATGT 588
Db 762 TAAACCATTT 753
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RESULT 15

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US-10-259-165-389/c
; Sequence 389, Application US/10259165
; Publication No. US2003013588A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiaki
; APPLICANT: Krops, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Ricke, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259,165
; PRIOR FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 389
; LENGTH: 717
; TYPE: DNA
; ORGANISM: Oryza sativa
US-10-259-165-389
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Query Match 10.1%; Score 155.8; DB 15; Length 717;
Best Local Similarity 57.9%; Pred. No. 9.2e-24;
Matches 297; Conservative 0; Mismatches 212; Indels 4; Gaps 1;

QY 50 GGTGCAACAATATTGTTGTCTCCAAATGTGGTACAAGGATTTTACATCTCCGGGTAC 109
Db 541 GGTGCAAGTACTGCTGCTCTTGAACACCGTGCACGGTTGTTGCACCCGCGGGCGC 482
QY 110 TTTAAGCTGACTAGGACATTCAACATTATATTGCGGTGCATTGAATTGG-----TGGC 165
Db 481 CCTCAGCTCGTGGGACATGCCCCCGCCACGTCGCGCTCGCACCGCGCGCGCTTGGC 422
QY 166 ATTTCCCTCCACTTGGATTAGTCGGGGGGAAGTCACTGGTATATAATCCATCACTA 225
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Db 421 GCACCCGCGCCCGTCCGCGCGGGGAGGAAGTCCATGGGCACTTGAATCCGTCGATGA 362
QY 226 AAGAAATGTCCCAAGAAATCTAAGTTGTTGAAGTGGTCCGAGGGCGTACTCGGCTAGGGTGT 285
Db 361 GGGAGATGTCGAAGAGTCCGAGGTTGCTGAAGTGGTTTCAGCGGGAACCTCCGCGACGGTGT 302
QY 286 TTGGCGGTTTACCCACCCCGGTGCACTGCGAGGACACCAACCAATCAACAGTCAATGCAAG 345
Db 301 TGGCGCGCTGCCCGTACGCGCGCACCGCAGCACGCGCGCGAGTCGCGCTCTTGGCACCC 242
QY 346 AACCTCTACAGCACCATCGAAGTTACATCCAGTACGACCCCATATATACGTGCCATCGTAG 405
Db 241 GCCGTTTGGCGCTGCGGTGCAAGTGCAGCCCGTGCAGCGGCCCAACACGCGCCCGCCGTCG 182
QY 406 TGCCCTTAGCGGCATCAATGACCCACCGTTTGGGCTCGATCGAGACGTGCGGCCACCGCCTA 465
Db 181 TGCGGCGCGCACGTCGATCACCACCTGCTGCCCGGGTCCAGTGTGCTGCCCGCGCGCG 122
QY 466 TCGGGGTTCGATGTGCGCCACAGCGGTGTATGAGACAGTTGTTGGCGTACCTCGANATGGCAG 525
Db 121 ACGGCACGGCTGCGCGCCACACGCGTGTCTGGCACTTGTGGTGTGATGGTGAACCGTGGCGG 62
QY 526 CATAGTGAAGTCAACAAAGCAAGAGGGAGA 558
Db 61 CGTTCCGCGCGCGCGGAGGAGAGAGGGGA 29
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Job time : 971.901 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 17, 2005, 17:23:59 ; Search time 252.501 Seconds
(without alignments)
10018.495 Million cell updates/sec

Title: US-10-051-307-3

Perfect score: 1546

Sequence: 1 atcttggttgaaaaattg.....tggtgaagtgtgtgtttc 1546

Scoring table: IDENTITY NUC.

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/5A COMB.seq.*

2: /cgn2_6/ptodata/1/ina/5B COMB.seq.*

3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*

4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*

5: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq.*

6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	500	32.3	3033	1	US-08-482-037A-1
C 2	450.4	29.1	883	1	US-07-828-798C-4
C 3	450.4	29.1	883	2	US-08-315-868A-4
C 4	450.4	29.1	883	3	US-08-495-819B-4
C 5	450.4	29.1	884	1	US-07-828-798C-5
C 6	450.4	29.1	884	2	US-08-315-868A-5
C 7	450.4	29.1	884	3	US-08-495-819B-5
C 8	180.6	11.7	875	4	US-09-589-733C-4
C 9	159.2	10.3	900	1	US-08-181-271A-4
C 10	159.2	10.3	900	1	US-08-449-315-4
C 11	159.2	10.3	900	1	US-08-444-803-4
C 12	159.2	10.3	900	1	US-08-449-043-4
C 13	159.2	10.3	900	1	US-08-456-265A-4
C 14	159.2	10.3	900	1	US-08-455-416-4
C 15	159.2	10.3	900	1	US-08-455-244-4
C 16	159.2	10.3	900	1	US-08-454-876-4
C 17	159.2	10.3	900	2	US-08-457-364-4
C 18	159.2	10.3	900	2	US-08-456-262-4
C 19	159.2	10.3	900	2	US-08-456-240-4
C 20	159.2	10.3	900	2	US-08-455-736-4
C 21	159.2	10.3	900	2	US-08-971-217-4
C 22	159.2	10.3	900	3	US-09-350-600-4
C 23	159.2	10.3	900	4	US-09-906-234-4
C 24	152.6	9.9	910	4	US-09-685-292-1
C 25	124.8	8.1	894	1	US-08-178-708-7
C 26	124.8	8.1	894	1	US-08-457-552-7
C 27	124.8	8.1	894	1	US-08-456-430-7

C 28	124.8	8.1	894	2	US-08-994-418-7
C 29	124.8	8.1	894	5	PCT-US95-00432-7
C 30	101	6.5	1309	6	5221624-4
C 31	101	6.5	1309	6	5221624-4
C 32	94	6.1	621	3	US-09-224-514A-1
C 33	94	6.1	621	6	5221624-31
C 34	94	6.1	621	6	5221624-31
C 35	92.8	6.0	621	3	US-09-224-514A-9
C 36	83	5.4	624	2	US-08-426-599B-3
C 37	76.4	4.9	624	2	US-08-426-599B-1
C 38	73.8	4.4	2051	1	US-08-482-037A-2
C 39	67.8	4.4	230	4	US-09-589-733C-28
C 40	65.6	4.2	1141	4	US-09-806-708B-22
C 41	63.2	4.1	1141	4	US-09-806-708B-22
C 42	61.8	4.0	114139	4	US-09-949-016-16536
C 43	61.8	4.0	187169	4	US-09-949-016-12776
C 44	61.8	4.0	191569	4	US-09-949-016-15940
C 45	57	3.7	12909	4	US-09-949-016-14037

ALIGNMENTS

RESULT 1

US-08-482-037A-1/c

Sequence 1, Application US/08482037A

Patent No. 5801028

GENERAL INFORMATION:

APPLICANT: Ray Bressan and Paul M. Hasegawa

TITLE OF INVENTION: Osmotin Gene Promoter and Use Thereof

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSEE: Thomas Q. Henry

STREET: Bank One Tower, Suite 3700, 111 Monument Circle

CITY: Indianapolis

STATE: Indiana

COUNTRY: USA

ZIP: 46204-5137

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage

COMPUTER: COMPAQ

OPERATING SYSTEM: MSDOS

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/482,037A

FILING DATE: June 7, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/476,243

FILING DATE: June 7, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/180,428

FILING DATE: January 12, 1994

APPLICATION NUMBER: 08/065,147

FILING DATE: May 20, 1993

ATTORNEY/AGENT INFORMATION:

NAME: Thomas Q. Henry

REGISTRATION NUMBER: 28,309

REFERENCE/DOCKET NUMBER: 7024-8/PUR16CIPDIVII

TELECOMMUNICATION INFORMATION:

TELEPHONE: (317) 634-3456

TELEFAX: (317) 637-7561

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 3033 bases

TYPE: Nucleotide/Amino Acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: Genomic DNA

US-08-482-037A-1

Query Match 32.3% ; Score 500; DB 1; Length 3033;

Best Local Similarity 71.1%; Pred. No. 4e-114;
Matches 749; Conservative 0; Mismatches 265; Indels 40; Gaps 5;

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QY 1 ATCTTTGTTGAAAAATTTGAAAAAGACGTAGGACCAATGACCTTGGGTGCAACAAT 60
Db 2619 ATCTTTGTTGAAAAATTTGAAAAATTTGAGAAAAATGTAGGACCAACAAGTCTTGTGTGCAACAAT 2560
QY 61 ATGTGTCTCCCAATGTGTGTACAGGATTTGATCATCTCTCGGGTACTTTAAGCTGAC 120
Db 2559 ATGTGTCTCCCAATGTGTGTACAGGATTTGATCATCTCTCGGGTACTTTAAGCTGAC 2500
QY 121 TAGGACATTCACCATTTATTTGCGGTGATTTGAATTCGCGTGGCATTTCCCTCCACTTG 180
Db 2499 GGGGACATTCGCGGTATTTATAGCGGTACATGAATTCGATGGCATTTCCCTCCACTAG 2440
QY 181 GATTAGTCGGGCGAAAGTCATCGGTATTTAAATCCATCAATCAAGAAATGTCCCGAGA 240
Db 2439 GGTAGTCGGGCGAAAGTCATCGGAATGTTGAATCCATCAATCAAGAAATGTCCCGAGA 2380
QY 241 AATCTAAGTTGTTGAACTGGTCCGAGGCGTACTCGCTAGGTGTTTGGCGGTTTACCCC 300
Db 2379 AATCTAAGTTGTTGAACTGGTCCGAGGCGTACTCGCTAGGTGTTTGGCGGTTTACCCC 2320
QY 301 ACCCGGTGCACTGCAGGACCAACCAATCAATCAATCAATCAATCAATCAATCAATCAAT 360
Db 2319 ACCCGGTGCACTGCAGGACCAACCAATCAATCAATCAATCAATCAATCAATCAATCAAT 2260
QY 361 CATCGAAGTTACATCCAGTACGACCCCATATAGTGCATCGTATCGGCTTACCGGAT 420
Db 2259 CATCGAAGTTACATCCAGTACGACCCCATATAGTGCATCGTATCGGCTTACCGGAT 2200
QY 421 CAATGACCCACGTTTGGCTCGATCGAGCGTGGCGGCGGCGGCGGCGGCGGCGGCGGCG 480
Db 2199 TGATCACCACGTTTGGCTCGATCGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 2140
QY 481 CCCACAGCGTGTATGACAGATTTGTCGCTACCTCGATGTCGACGATGTCGACGATGTCG 540
Db 2139 CCCACAGCGTGTATGACAGATTTGTCGCTACCTCGATGTCGACGATGTCGACGATGTCG 2080
QY 541 CAAAGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 600
Db 2079 CCAAGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2020
QY 601 ATATGAGCAATTTATTTTGGTACT-----TTATATATAGGAT 641
Db 2019 TTTTAAAGTTGGTGTGGATATAGTGAACAATTTTGTAGTGGTTTATATAGGGA 1960
QY 642 ATGGCGGCTTTTGGCACTATGATATTAATCGTATTAATCAATATCAATATCAATTTGACT 701
Db 1959 ATGGCGGCTTTTGGCACTATGATATTAATCGTATTAATCAATATCAATTTGACT 1905
QY 702 AATTATAACAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 760
Db 1904 A---ATAACGATATATCTCAAGATGCTTTTGGCAAGATGAGGCGGCGCTTAAACAT 1848
QY 761 AAGCGCGCTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 820
Db 1847 AAGCGCGCTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1800
QY 821 TTTGTTGATAAATTCGACATATAAATCTCTGATCTGTCGCGGAACTTTTCTTAAACATAA 880
Db 1799 TTTGTTGATAAATTCGACATATAAATCTCTGATCTGTCGCGGAACTTTTCTTAAACATAA 1740
QY 881 TATTAAAAAGCAGCTATTATTAATTTTTCGTCGCGGAAAGTTTTCGATCACTTACTAT 940
Db 1739 AGTCAATTTCTGCTTTCTTTTATCTATACCAATTTTAAATTCGCAAGAAATTCAGAT 1680
QY 941 GCGCATTTTACTTTTATCGTTCTAGCTTCTAGGTACCGGTTTGAACATAAATAATCAT 1000
Db 1679 AGCCACTTTTTCGCGAGATAGCCATTTTAAAGCTATTCAATATATTTAGTTTAAATG 1620
QY 1001 AAAAAATGAAAGTAAAAATTTAGTTTTCATTA 1034
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Db 1619 AAAATAAACTCAAAACAATAATATTTCGTCAAAA 1586

RESULT 2
US-07-828-798C-4/c
; Sequence 4, Application US/07828798C
; Patent No. 5389609
; GENERAL INFORMATION:
; APPLICANT: Moloshuk, Charles P.
; APPLICANT: Melchers, Leo S.
; APPLICANT: Cornelissen, Bernardus J. C.
; APPLICANT: Neulenhoff, Elisabeth J. S.
; APPLICANT: Sela-Buurlage, Marianne B.
; APPLICANT: Van Den Elzen, Petrus J. M.
; TITLE OF INVENTION: Antifungal Preparations, Process for
; TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with
; TITLE OF INVENTION: Decreased Susceptibility to Fungi
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ladas & Parry
; STREET: 26 West 61st Street
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10023

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage

COMPUTER: IBM PC/XT/AT or compatibles

OPERATING SYSTEM: DOS

SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/828,798C

FILING DATE: 06-APR-1992

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/NL91/00089

FILING DATE: 31-05-91

ATTORNEY/AGENT INFORMATION:

NAME: Mass, Clifford J.

REGISTRATION NUMBER: 30086

REFERENCE/DOCKET NUMBER: U-8622-6

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 708-1800

TELEFAX: (212) 246-8959

TELEX: 233288

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 883

TYPE: Nucleotide

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cdna

ORIGINAL SOURCE:

ORGANISM: Nicotiana tabacum

US-07-828-798C-4

Query Match 29.1%; Score 450.4; DB 1; Length 883;

Best Local Similarity 85.4%; Pred. No. 5e-102;

Matches 502; Conservative 0; Mismatches 86; Indels 0; Gaps 0;

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QY 1 ATCTTTGTTGAAAAATTTGAAAAAGACGTAGGACCAATGACCTTGGGTGCAACAAT 60
Db 602 ATCTTTGTTGAAAAATTTGAAAAATTTGAGAAAAATGTAGGACCAACAAGTCTTGTGTGCAACAAT 543
QY 61 ATGTGTCTCCCAATGTGTGTACAGGATTTGATCATCTCTCGGGTACTTTAAGCTGAC 120
Db 542 ATGTGTCTCCCAATGTGTGTACAGGATTTGATCATCTCTCGGGTACTTTAAGCTGAC 483
QY 121 TAGGACATTCACCATTTATTTGCGGTGATTTGAATTCGCGTGGCATTTCCCTCCACTTG 180
Db 482 GGGGACATTCGCGGTTTATATTTAGCCGTACAAATGAATTCGATGCGATTTCCCTCCACTAG 423
QY 181 GATTAGTCGGGCGAAAGTATCGGTATATTTAAATCCATCAATCAAGAAATGTCCCGAGA 240
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Db 422 GGTAGTCGGGGGAAAGTCAATCGAATGTTGAATCCATCAACTAAAGAAATGCCAGA 363
Qy 241 AATCTAAGTTCTGAACCTGGTCCGAGGCGTACTCGGCTAGGCTGTTGGCGGTTTACCCC 300
Db 362 AATCTAACCAGTGAATGGTCCAAAGGATTCAGCCAGGTTGTTGGTGGTTTACCCC 303
Qy 301 ACCCGGTGCACTGAGGACACACACAAATCACCAGTCATGACGAAACCTCTACCAGCAC 360
Db 302 ACCCGGTGCACTGAGGACACACACAAATCACCAGTCATGACGAAACCTCTACCAGCAC 243
Qy 361 CATCGAAGTTACATCCAGTACGACCCCATATACGTGCGCATGTAGTCCCTTACGCCCAT 420
Db 242 CATCGAAGTTACATCCAGTACGACCCCATATACGTGCGCATGTAGTCCCTTACGCCCAT 183
Qy 421 CAATGACCCAGTCTGGCTCGATCGAGACGTCGGCCACCGCTTATCGGGTGCATGCTG 480
Db 182 TGATCACCAGTCTGGCTCGATCGAGACGTCGGCCACCGCTTATCGGGTGCATGCTG 123
Qy 481 CCCAGACGGTGTATGACAGTGTGCGTACCTCGATAGTGGCAGCATAAGTGAAAGTCA 540
Db 122 CCCAAACGGTGTACGACAGTGTGTCGACCTCGATAGTGGCAGCATAAGTAAAGTCA 63
Qy 541 CAAAGCAGAGGAGGAGAAACAAAGAGATCTCAAGTAGCCCATGT 588
Db 62 CCAAGGCAAGGAGGAGAAACAAAGAGATCTCAAGTAGCCCATGT 15

RESULT 3

US-08-315-868A-4/c
; Sequence 4, Application US/08315868A
; Patent No. 5856151
; GENERAL INFORMATION:
; APPLICANT: Woloshuk, Charles P.
; APPLICANT: Melchers, Leo S.
; APPLICANT: Cornelissen, Bernardus J. C.
; APPLICANT: Meulenhoff, Elisabeth J. S.
; APPLICANT: Sela-Buurlage, Marianne B.
; APPLICANT: Van Den Elzen, Petrus J. M.
; TITLE OF INVENTION: Antifungal Preparations, Process for
; TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with
; TITLE OF INVENTION: Decreased Susceptibility to Fungi
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ladas & Parry
; STREET: 26 West 61st Street
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10023
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
; COMPUTER: IBM PC/XT/AT or compatibles
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/315,868A
; FILING DATE: 09-SEP-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/828,798
; FILING DATE: 06-APR-1992
; APPLICATION NUMBER: PCT/NL91/00089
; FILING DATE: 31-05-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Mass, Clifford J.
; REGISTRATION NUMBER: 30086
; REFERENCE/DOCKET NUMBER: U-8622-6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 708-1800
; TELEFAX: (212) 246-8959
; INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

; LENGTH: 883
; TYPE: Nucleotide
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: cdna
; ORIGINAL SOURCE:
; ORGANISM: Nicotiana tabacum
US-08-315-868A-4
Query Match 29.1%; Score 450.4; DB 2; Length 883;
Best Local Similarity 85.4%; Pred. No. 5e-102;
Matches 502; Conservative 0; Mismatches 86; Indels 0; Gaps 0;
Qy 1 ATCTTTCTTTTGAAGAAATTCGAAAGAACCTAGGACACATGACCTTGGGTGCAACAAT 60
Db 602 ATCTTTCTTTTGAAGAAATTCGAAAGAAATTCGAAAGAACCTAGGACACATGACCTTGGGTGCAACAAT 543
Qy 61 ATTTGTTCTCTCAAATGTTGGTACAGGATGTTTACATCTCTCGGGTACTTTAAAGCTGAC 120
Db 542 ATTTGTTCTCTCAAATGTTGGTACAGGATGTTTACATCTCTCGGGTACTTTAAAGCTGAC 483
Qy 121 TAGGACATTCACCATTTTATATTTGCGGTGCAATGGAATTCGTTGGCATTTCCCTCCACTTG 180
Db 482 GGGGACATTCGCGGTTTATATTTAGCCGTACAAATGGAATTCGTTGGCATTTCCCTCCACTTG 423
Qy 181 GATTAGTCGGGGGAAAGTTCATCGGTATATTTAAATCCATCAACTAAAGAAATGTCGCCAGA 240
Db 422 GATTAGTCGGGGGAAAGTTCATCGGTATATTTAAATCCATCAACTAAAGAAATGTCGCCAGA 363
Qy 241 AATCTAAGTTGTTGAACCTGTCGAGGCGTACTCGGCTAGGCTGTTTGGCGGTTTACCCC 300
Db 362 AATCTAAGTTGTTGAACCTGTCGAGGCGTACTCGGCTAGGCTGTTTGGCGGTTTACCCC 303
Qy 301 ACCCGGTGCACTGAGGACACACCAATCACCAGTCATGACGAAACCTCTACCAGCAC 360
Db 302 ACCCGGTGCACTGAGGACACACCAATCACCAGTCATGACGAAACCTCTACCAGCAC 243
Qy 361 CATCGAAGTTACATCCAGTACGACCCCATATACGTGCGCATGCTAGTCCCTTACGCCCAT 420
Db 242 CATCGAAGTTACATCCAGTACGACCCCATATACGTGCGCATGCTAGTCCCTTACGCCCAT 183
Qy 421 CAATGACCCACGTTTGGCTCGATCGAGACGTCGGCCACCGCTTATCGGGTGCATGCTG 480
Db 182 TGATCACCAGTCTGGCTCGATCGAGACGTCGGCCACCGCTTATCGGGTGCATGCTG 123
Qy 481 CCAGACGGTGTATGACAGTGTGCGTACCTCGATAGTGGCAGCATAAGTGAAAGTCA 540
Db 122 CCCAAACGGTGTACGACAGTGTGTCGACCTCGATAGTGGCAGCATAAGTAAAGTCA 63
Qy 541 CAAAGCAGAGGAGGAGAAACAAAGAGATCTCAAGTAGCCCATGT 588
Db 62 CCAAGGCAAGGAGGAGAAACAAAGAGATCTCAAGTAGCCCATGT 15

RESULT 4

US-08-495-819B-4/c
; Sequence 4, Application US/08495819B
; Patent No. 6087161
; GENERAL INFORMATION:
; APPLICANT: Woloshuk, Charles P.
; APPLICANT: Melchers, Leo S.
; APPLICANT: Cornelissen, Bernardus J. C.
; APPLICANT: Meulenhoff, Elisabeth J. S.
; APPLICANT: Sela-Buurlage, Marianne B.
; APPLICANT: Van Den Elzen, Petrus J. M.
; TITLE OF INVENTION: Antifungal Preparations, Process for
; TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants
; TITLE OF INVENTION: with Decreased Susceptibility to Fungi
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ladas & Parry
; STREET: 26 West 61st Street

APPLICANT: Meulenhoff, Elisabeth J. S.
APPLICANT: Sela-Buurlage, Marianne B.
APPLICANT: Van Den Elzen, Petrus J. M.
TITLE OF INVENTION: Antifungal Preparations, Process for
TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants
TITLE OF INVENTION: with Decreased Susceptibility to Fungi
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ladas & Parry
STREET: 26 West 61st Street
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10023
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM PC/XT/AT or compatibles
OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/495,819B
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/315,868
FILING DATE: 30-SEPT-94
APPLICATION DATA:
APPLICATION NUMBER: 07/828,798
FILING DATE: 06-APRIL-92
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/NL91/00089
FILING DATE: 31-05-91
ATTORNEY/AGENT INFORMATION:
NAME: Mass, Clifford J.
REGISTRATION NUMBER: 30086
REFERENCE/DOCKET NUMBER: U-010255-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 708-1800
TELEFAX: (212) 246-8959
TELEX: 233288
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 884
TYPE: Nucleotide
STRANDEDNESS: Double
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Nicotiana tabacum
US-08-495-819B-5

Query Match 29.1%; Score 450.4; DB 3; Length 884;
Best Local Similarity 85.4%; Pred. No. 5e-102;
Matches 502; Conservative 0; Mismatches 86; Indels 0; Gaps 0;
QY 1 ATCTTTGTTGAAAATTTGAAAAGACGTAGGACCAATGACCTTGGGTGCAACAAAT 60
DB 602 ATCTTTGTTGAAAATTTGAAAAGACGTAGGACCAATGACCTTGGGTGCAACAAAT 543
QY 61 ATTGTGTCCTCCAATTTATTTGTCGATGAGGATTTTACATCCTCCGGGTACTTTAAGCTGAC 120
DB 542 ATTGTGTCCTCGAATGTAGTACAGGGTTATTATACATCCTCCGGGACCTTAAGTTCG 483
QY 121 TAGGACATTCACCATTTATTTGTCGATGAGGATTTTACATCCTCCGGGTACTTTAAGCTGAC 180
DB 482 GGGGACATTCGCGGTTTATTTAGCCGTACAAATGAAATGCAATGCAATTTCCCTCCACTAG 423
QY 181 GATTAGTCGGGCGAAGTCATCGGTATTTAAATCCATCACTAAAGAAATGTCACAGA 240
DB 422 GGTAGTCGGGCGAAGTCATCGGAATGTTGAATCCATCACTAAAGAAATGTCACAGA 363
QY 241 AATCTAAGTTGTTGAACGTGGTCCGAGGGGTACTCGGCTAGGGTGTTCGGCGGTTTACCCC 300

DB 362 AATCTAACCACCTGAAATTTGGTCCAAAAGCGTATTAGCCAGAGGTGTTTGGTGGTTTACCCC 303
QY 301 ACCGGTGCATCGCAGGACACACCAATCACCAGTTCATCAGCAACCTCTACCAGCAC 360
DB 302 ACCGGTGCATCGCAGGACCTCCACCAAGTACCAGGTTTGGCAGTACCCCTACCAGCAG 243
QY 361 CATGAAAGTTACATCCAGTACGACCCCATATACGTGCGCATCGTGTGCCCCCTAGCGCAT 420
DB 242 CATGAAAGTTACATTTAGTAGCGGCCCATACACGTGCCATTTTAGTACTCTGTGGCGAT 183
QY 421 CAATGACCCACGTTTGGCTCGATCGAGACGTGCGGCCACCCGCTATCGGGGTGCGATG 480
DB 182 TGATCACCCAAAGTTTGGCTCGATCGAGACGCCGCCACCCGCTATGCGGTGTCGACGCG 123
QY 481 CCCAGCGGTGATGCGACAGTTTGGCTACTCGATGCTGCGAGCATAGTGAAGTCA 540
DB 122 CCCAAACGGTGTACGACAGTTTGGTTCGACCTCGATAGTGGCAGCATATAGTATAAGTCA 63
QY 541 CAAAAGCAAGAGGAGAGAAAACAAAAGAAAGATCTCAAGTAGCCCCATGT 588
DB 62 CCAAGGCAGAGGAGAGAAAACAAAAGAAAGATCTCAAGTTGCCCATGT 15
RESULT 8
US-09-589-733C-4/c
; Sequence 4, Application US/09589733C
; Patent No. 6677503
; GENERAL INFORMATION:
; APPLICANT: Bidney, Dennis L.
; APPLICANT: Crasta, Oswald R.
; APPLICANT: Duwick, Jon
; APPLICANT: Hu, Xu
; APPLICANT: Lu, Guihua
; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
; FILE REFERENCE: 5718-90
; CURRENT APPLICATION NUMBER: US/09/589,733C
; CURRENT FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: 60/140,646
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/162,904
; PRIOR FILING DATE: 1999-11-01
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 875
; TYPE: DNA
; ORGANISM: Helianthus annuus
US-09-589-733C-4

Query Match 11.7%; Score 180.6; DB 4; Length 875;
Best Local Similarity 60.9%; Pred. No. 5e-35;
Matches 332; Conservative 0; Mismatches 204; Indels 9; Gaps 2;
QY 1 ATCTTTGTTTCAAAAATTTGAAAAGACGTAGGACCAATGACCTTGGGTGCAACAAAT 60
DB 577 ATCTGGTCTTGAAAACCTTGATATAATCAGTTGGTCCACATTTCCAGATTGCAACAAAT 518
QY 61 ATTGTGTCCTCCAATTTGTTGTAAGGATTTTACATCCTCCGGGTACTTTAAGCTGAC 120
DB 517 ACTGATCAGTTTGTACACGGTGCAGGGTTATTGACCCGCGAGGAGCCGCTAATCTCAC 458
QY 121 TAGGACATTCACCATTTATTTGTCGTCGATGAGTTCGTCGATTCCTCCACTTG 180
DB 457 CAGGACATCTGCCATTTGATATCCGAGTACATGATACCCCGGTGCACCC-----AT 404
QY 181 GATTAGTCGGGCGAAGTCACTCGGTATTTAAATCCATCACTAAAGAAATGTCACAGA 240
DB 403 TAGAATTTGGGTCTAAACACCATCGGCATTTGAATCCGTCACAGAAATGTCACAGA 344
QY 241 AATCTAAGTTGTTGAACGTGGTCCGAGGGGTACTCGGCTAGGGTGTTCGGCGGTTTACCCC 300
DB 343 AATCAAGATTGTTGAACGTGGTTCAAAAGCGGTACTCGGCCAATGTTGTTGGTGGGTACCAT 284

Db 316 TTCCATAGCCTTGACACTCTAAACATCCCGTTACAGTCTCCAGTCTCACAATTAACCTCGGC 257
QY 355 CAGCACCATCGAAGTTACATCAGTAGCAGACCCCATATAGTGGCATCTAGTGGCCCTAG 414
Db 256 CACTGCCATCGAAGTTGCAATTTGGTTGCGACCCCAATGCGAGCTGGACTGTTCTCTGGGT 197
QY 415 GCGCATCAATGACCCACGTTTGGCTTCGATCGAGAGCTGGCCACCGCCTATCGGGTGG 474
Db 196 TCACATTAATGCTCCAGATTGGCTTGAGTCGAGCGCGCTGCTCCACCT---GGAGAGG 140
QY 475 ATGCTGCCAGACGGTGTATGACAGTGTGTTGGTACCTCGATAGTGGCAGCATAGTGA 534
Db 139 CCGCGGCCAGACTGTGTAGTGCAATTTGTTGACAATGTCARAAGTGGCAGCATGATGA 80
QY 535 AAGTACAAA 544
Db 79 CAGTACAAA 70

RESULT 10

US-08-449-315-4/c
Sequence 4, Application US/08449315
Patent No. 5650505
GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Utnes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 166
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/449,315
FILING DATE: 24-MAY-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-449-315-4
Query Match 10.3%; Score 159.2; DB 1; Length 900;
Best Local Similarity 61.1%; Pred. No. 1e-29;
Matches 336; Conservative 0; Mismatches 193; Indels 21; Gaps 4;
QY 1 ATCTTTGTTTGAATAAATTTGGAAGAAGACGTAGGAGCACAT-----GGACCTTGGGTGC 54
Db 604 ATCTTTCCTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTGTATC 545
QY 55 AACAAATATTGTTGCTCCAAATGTGGTACAGAGATTGTATCATCTCTCGGGTACTTTAA 114
Db 544 AACAAATATTGTTGTTTATTCACAGTACATGGGTTGTTTATCATCCACCTTGTGTTTCA 485
QY 115 GCTGACTAGGACATTCACCATTTATTTTTCGCTGCTGATTTGAATTCGGTGGCATTTCCCTC 174
Db 484 ACTGTGCTGGGCATTTGTTGTTTAAATAGGTGCTGTGCATCTGAGATTACGACATCTCTCC-- 427
QY 175 CACTTGGATTAGTTCGGGGCGAAAGTCATCGGTGTATTAATTAATCCATCAACTAAAGAAATGT 234
Db 426 -----ATTGTCGGGCTGAATTCATGGGATGTTTAAATCCATCAACAAGAGAGATGT 374
QY 235 CCCAGAAATCTAAGTTTGTGAAGTCCGAGGCGGTACTCGGCTAGGCTGTTTGGCGGTT 294
Db 373 CGACAAAGTC---CTGATTGGGTTGATTAAAGTGCATAATTCAGCTAAAGTGTAGGTGCTT 317
QY 295 TACCCACCCCGGTGCACTGCAGGAGCACCAACCAATATCCAGTCTATGCACGAACCTCTAC 354

; PRIOR APPLICATION DATA:

Db 316 TTCCATAGCTTGACACTTAACATCCCGTTACAGTCTCCAGTCTCACAATTAACCTCGGC 257
QY 355 GAGCACCATCGAAGTTAGATCAGTACGAGACCCCATATAGTGCCTATCGTAGTGCCTAG 414
Db 256 CACTGCCATCGAAGTTGCAATTTGGTTGCAACCCCAATGCGAGCCTGGACTGTTCTCGGT 197
QY 415 GGCATCAATGACCCACGTTTGGCCTCGATCGAGAGCTGCGGCACCGCCTATCGGGGTG 474
Db 196 TCACATTAATGCTCCAGATTGGCTTGAGTCCAGCGGCTGCTCACT---GGAGAGG 140
QY 475 ATGCTGCCAGAGCGGTGTATGACAGTGTGTTGCGTACCTCGATAGTGGCAGCATAGTGA 534
Db 139 CGCGGCCAGACTGTGTAGTGCATTGTTGTCACAAATGTCAAAAGTGGCAGCATGATAA 80
QY 535 AAGTACAAA 544
Db 79 CAGCTACAA 70

RESULT 12

US-08-449-043-4/c
; Sequence 4, Application US/08449043
; Patent No. 5689044
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Moyer, Mary B.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Payne, George B.
; APPLICANT: Sperison, Christoph
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Utnes, Scott J.
; APPLICANT: Ward, Eric R.
; APPLICANT: Williams, Shericca C.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/449,043
; FILING DATE: 24-MAY-1995
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/181,271
; FILING DATE: 13-JAN-94
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/678,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/632,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Elmer, James Scott
; REGISTRATION NUMBER: 36,129
; REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8614
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-449-043-4
Query Match 10.3%; Score 159.2; DB 1; Length 900;
Best Local Similarity 61.1%; Pred No. 1e-29;
Matches 336; Conservative 0; Mismatches 193; Indels 21; Gaps 4;
QY 1 ATCTTTGTTTGAAGAAATTTGGAAGAACGTTAGGACCAAT-----GGACCTTGGGTGC 54
Db 604 ATCTTTCTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTGTAC 545
QY 55 AACATATTTGTTCTCCTCCAAATGGGTACAGAGTTGTTACATCTCGGGTACTTTAA 114
Db 544 AACATATTTCTATTTGTTTATACAGTACATGGGTGTTTATCATCCACCTGTTGTGTTTCA 485
QY 115 GCTGACTAGGACATTCACCATTTTATTTGCGGTGTCATTGAATTCGGTGGCATTTCCCTC 174
Db 484 ACTGTGCTGGGCATTTGTTGTTTATAGGTGCTGTGCATCTGAGATTACGACATCTCTCC-- 427
QY 175 CACTTGGATTAGTCCGGGCGGAAAGTCATCGGTGTATATAATCAATCACTAAAGAAATGT 234
Db 426 -----ATTGTCGGGCTGAATTCATGGGATGTTAAATCCATCAACAAGAGAGATGT 374
QY 235 CCCAGAAATCTAAGTTGTTGAACTGGTCCGAGGCGGTACTCGCTAGGCTGTTTGGCGTT 294
Db 373 CGACAAAGTC---CTGATTGGGTTGATTAAAGTGCAAAATTCAGTAAAGTTAGGTGCTT 317
QY 295 TACCCACCCCGTGCATCTGCAGGACACCACCAATCAACCATGATCATGCAAGAACCTCTAC 354

Db 316 TTCCATAGCCTTGACACTTAACATCCCGTTACAGTCTCCAGTCTCAAAATTACCTCGGC 257
Qy 355 CAGCACCATGAAGTTACATCCAGTACGACCCCATATACGTGCGCATCTGTAGTCCCTTAG 414
Db 256 CACTGCCATCGAAGTTGCAATGTTCCACCCCAATCGAGCTGTGACTGTTCTGGGT 197
Qy 415 CGCATCAATGACCCACGCTTTGGCTCGATCGAGACGTGCGCCACCGCTATCGGGTGC 474
Db 196 TCACATTAATGCTCAAGATTGGCTGAGTCGAGCGGCTCGCTCCACCT--GGAGAGG 140
Qy 475 ATGCTGCCACGAGTGTATGAGAGTGTGCGTACCTCGATAGTGGCAGCATAAAGTGA 534
Db 139 CCGGGGCCAGACTGTGTAGTGCATTTGTTGACAAATGTCAAAAGTGGCAGCATGAGTAA 80
Qy 535 AAGTCACAAA 544
Db 79 CAGCTACAAA 70

RESULT 13

US-08-456-265A-4/c
; Sequence 4, Application US/08456265A
; Patent No. 5767369
; GENERAL INFORMATION:
; APPLICANT: Alexander, Danny C.
; APPLICANT: Rvals, John A.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Stinson, Jeffrey R.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 520 White Plains Road, P.O. Box 2005
; CITY: Tarrytown
; STATE: New York
; COUNTRY: USA
; ZIP: 10591
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/456,265A
; FILING DATE: 31-MAY-95
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/181,271
; FILING DATE: 13-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/678,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/632,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timothy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727/DIV10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8587
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-456-265A-4

Query Match 10.3%; Score 159.2; DB 1; Length 900;
Best Local Similarity 61.1%; Pred. No. 1e-29;
Matches 336; Conservative 0; Mismatches 193; Indels 21; Gaps 4;

Qy 1 ATCTTTGTTGAAAAATCGAAAAAGAACGTAGGACCAAT-----GGACCTTGGGTGC 54
Db 604 ATCTTTCTTAAAAAATCTCGAAAAATCAGTAGGCCACATGATCCAGGCCCAATTTGTAC 545
Qy 55 AACAAATATTGTTGCTCCAAATGTGTACAAAGATTGTACATCTCCGGGTACTTTAA 114
Db 544 AACAAATATTGTTGTTTATCACAGTACATGGGTTGTACATCCACCTTTGTGTTTCA 485
Qy 115 GCTGACTAGGACATTCACCAATTTATATTTCGCTGCATTTGAATTCGCTGGCATTTCCCTC 174
Db 484 ACTGTCTGGGCATTTGTTGTTAATAGGTGCTGTGCATCTGAGATTAGCATCTCTC-- 427
Qy 175 CACTTGGATTAGTGGGGCGAAAAGTCAATCGGTATATTAAATCCATCAACTAAAGAAATGT 234
Db 426 -----ATTGTCGGGCTGAATTTCCATGGGATGTTAAATCCATCAACAAGAGATGT 374
Qy 235 CCAGAAAATCTAAGTTGTTGAACTGTCGAGGGGTACTCGGCTAGGGTGTGTTGGCGGTT 294
Db 373 CGACAAAAGTC---CTGATTGGGTTGATTAAAGTGCAAAATTCAGCTAAAAGTGTAGGTGCTT 317
Qy 295 TACCCACCCGGTGCCTGAGGACACACACAAATCACCAGTCAATCCAGTCTCAATATTCTCGGC 354
Db 316 TTCCATAGCTTGAACCTTAACATCCCGTTACAGTCTCAGTCTCAATATTCTCGGC 257
Qy 355 CAGCACCATCGAAAGTTACATCCAGTACGACCCCATATACGTGCGCATCGTGTAGTCCCTTAG 414
Db 256 CACTGCCATCGAAGTTGCAATGTTTCGACCCCAATGCGAGCTGTGACTGTTCTGGGT 197
Qy 415 GCGCATCAATGACCCACGTTTGGCTCGATCGAGAGCTCGGCGCACCGCTTATCGGGGTGC 474
Db 196 TCACATTAATGCTCCAAGATTGGCTGAGTCGAGCCGCTGCTCCACCT---GGAGAGG 140
Qy 475 ATGCTGCCACGAGTGTATGAGAGTGTGCGTACCTCGATAGTGGCAGCATAAAGTGA 534

Db 139 CCGCGGCCAGACTGTGTAGTGCATTTGTTGACAAATGCAAAAAGTGCAGCATGAGTAA 80
 QY 535 AAGTCACAAA 544
 Db 79 CAGCTACAAA 70

RESULT 14
 US-08-455-416-4/c
 ; Sequence 4, Application US/08455416
 ; Patent No. 5777200
 ; GENERAL INFORMATION:
 ; APPLICANT: Ryals, John A.
 ; APPLICANT: Alexander, Danny C.
 ; APPLICANT: Beck, James J.
 ; APPLICANT: Duesing, John H.
 ; APPLICANT: Friedrich, Leslie B.
 ; APPLICANT: Goodman, Robert M.
 ; APPLICANT: Harms, Christian
 ; APPLICANT: Meins, Jr., Frederick
 ; APPLICANT: Montoya, Alice
 ; APPLICANT: Moyer, Mary B.
 ; APPLICANT: Neuhaus, Jean-Marc
 ; APPLICANT: Payne, George B.
 ; APPLICANT: Sperison, Christoph
 ; APPLICANT: Stinson, Jeffrey R.
 ; APPLICANT: Uknes, Scott J.
 ; APPLICANT: Ward, Eric R.
 ; APPLICANT: Williams, Shericca C.
 ; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 ; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
 ; NUMBER OF SEQUENCES: 106
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: CIBA-GEIGY Corporation
 ; STREET: 7 Skyline Drive
 ; CITY: Hawthorne
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10532
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/455,416
 ; FILING DATE: 31-MAY-1995
 ; CLASSIFICATION: 800
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/181,271
 ; FILING DATE: 13-JAN-94
 ; APPLICATION NUMBER: US 08/093,301
 ; FILING DATE: 16-JUL-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/937,197
 ; FILING DATE: 6-NOV-1992
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/678,378
 ; FILING DATE: 1-APR-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/305,566
 ; FILING DATE: 6-FEB-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/165,667
 ; FILING DATE: 8-MAR-1988
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/042,847
 ; FILING DATE: 6-APR-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/632,441
 ; FILING DATE: 21-DEC-1990
 ; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/425,504
 ; FILING DATE: 20-OCT-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/848,506
 ; FILING DATE: 6-MAR-1992
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/768,122
 ; FILING DATE: 27-SEP-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/580,431
 ; FILING DATE: 7-SEP-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/368,672
 ; FILING DATE: 20-JUN-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/329,018
 ; FILING DATE: 24-MAR-1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/045,957
 ; FILING DATE: 12-APR-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Elmer, James Scott
 ; REGISTRATION NUMBER: 36,129
 ; REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (919)541-8614
 ; TELEFAX: (919)541-8689
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 900 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cdna
 ; US-08-455-416-4
 Query Match 10.3%; Score 159.2; DB 1; Length 900;
 Best Local Similarity 61.1%; Pred. No. 1e-29;
 Matches 336; Conservative 0; Mismatches 193; Indels 21; Gaps 4;
 QY 1 ATCTTTGTTGAAAAAATGGAAAAAGACGCTAGGACACACAT-----GGACCTTGGGTGC 54
 Db 604 ATCTTTCTCTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTGTGAC 545
 QY 55 AACAAATATTGTTCTCCAAATGTGTACAGAGATTGTTACATCCTCCGGGTACTTTAA 114
 Db 544 AACAAATATTCATTGCTTTTATATCAGTACATGAGTGGTGTGTATACATCCACCTTGTGTTTCA 485
 QY 115 GCTGACTAGGACATTCACCAATTTATTTGCGGTGCATTTGAATTCGCGTGGCATTTCCCTC 174
 Db 484 ACTGTGCTGGGCATTTGCTTTAATAGTGTCTGTGCATCTGAGATTAGCATCCTCC-- 427
 QY 175 CACTTGGATTAGTCGGGGCGAAAGTCATCGGTATATTAAATCCATCACTAAAGAAATGT 234
 Db 426 -----ATTGTCGGGCTGAATTCATGGGATGTTAAATCCATCAACAAGAGAGATGT 374
 QY 235 CCCAGAAATCTAAGTTGTTGAACTGGTCCGAGGCGTACTCCGCTAGGTGTTTGGCGGTT 294
 Db 373 CGACAAAATC---CTGATTGGGTTTGAATTAAGTGCAAATTCAGCTAAAGTGTAGGTGTT 317
 QY 295 TACCCACCCGGTGCATCTGCAGGACACCCACCAATACACAGTATGACGACCACTCTAC 354
 Db 316 TTCAATAGCTTGACATCTTAACATCCCGTTACAGTCTCAGTCTCACAATTAACCTCGGC 257
 QY 355 CAGCACCATCGAAGTTATCATCCAGTACGACCCCATATACGTGCCATCGTAGGCCCTAG 414
 Db 256 CACTGCCATCGAAGTTGCAATTTGGTTCGACCCCAATGCGAGCGCTGGACTGTCTCGGT 197
 QY 415 GCGCATCAATGACCCCGTGGCTCGATCGAGAGCTCGGCCACCGCTATCGGGTCG 474
 Db 196 TCACATTAATGCTCCAAGATTGGCTGAGTCGAGCGCGCTCCCTCCACCT---GAGAGG 140
 QY 475 ATGCTGCCAGACGGTGTATGGACAGTTGTTGCGTACCTCGATAGTGGCAGCATAAGTGA 534

Db 139 CCGGGCCACACGTGTAGGTGTCATTTGTTGACAAATGTCAAAAGTGGCAGCATGAGTAA 80
Qy 535 AAGTCACAAA 544
Db 79 CAGCTACAAA 70

RESULT 15

US-08-455-244-4/c
; Sequence 4, Application US/08455244
; Patent No. 5789214
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Moyer, Mary B.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Payne, George B.
; APPLICANT: Sperison, Christoph
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Uknes, Scott J.
; APPLICANT: Ward, Eric R.
; APPLICANT: Williams, Shericca C.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/455,244
; FILING DATE: 31-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/181,271
; FILING DATE: 13-JAN-94
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; APPLICATION NUMBER: US 07/678,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/632,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Elmer, James Scott
; REGISTRATION NUMBER: 36,129
; REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8614
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-455-244-4

Query Match 10.3%; Score 159.2; DB 1; Length 900;
Best Local Similarity 61.1%; Pred. No. 1e-29;
Matches 336; Conservative 0; Mismatches 193; Indels 21; Gaps 4;

Qy 1 ATCTTTGTTTGAATAATCGAAAGAACGTAGGACCAACAT-----GGACCTTGGGTGC 54
Db 604 ATCTTTCTTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCAATTTGTAC 545
Qy 55 AACAAATATTGTCCTCCAAATGTTGTACAAGATTGTTACATCTCTCCGGGTACTTTAA 114
Db 544 AACAAATATTGTTGTTTATCAGAGTACATGGTTGTTTACATCCACCTTGTGTTTCA 485
Qy 115 GCTGACTAGGACATTCACCAATTTATTTTCCCGTGCATTTGAATTCGCTGGCATTCCTC 174
Db 484 ACTGTGCTGGGCATTGTTCTGTTAATAGGTGCTGTGCACTGAGATTACGACATCCTCC-- 427
Qy 175 CATTGGATTAGTCGGGGCGAAAGTCATCGGTATATTAATTCATCAACTAAGAAATGT 234
Db 426 -----ATTGTCGGGCTGAATTCATGGGGATGTTAAATTCATCAACAGAGATGT 374
Qy 235 CCAGAAATCTAAGTTGTTGAACTGTCGAGCGGTACTCGGTAGGTGTTTGGCGGTT 294
Db 373 CGACAAAGTC---CTGATTGGGTGATTAAAGTGAATTCAGCTAAAGTGTAGGTGCTT 317
Qy 295 TACCCACCCGGTGCCTGACGAGACACCAACATCACCAGTCATCGACGAACTCTAC 354
Db 316 TTCCATAGCTTGCACACTCTAAATCCCGTTACAGTCTCAGTCTCAATATTACCTGGC 257
Qy 355 CAGCAGCATCGAAGTTTACATCCAGTAGCAGCCCATATACGTGCATCGTAGTGCCTTAG 414
Db 256 CACTGCCATCGAAGTTGCAATTTGTTGACCCCAATTCGAGCTCGAGCTGTGACTGTTCTGGGT 197
Qy 415 GCGCATCAATGACCCAGTTTGGCTCGATCGAGAGCTCGGCCACCCCTATCGGGTGC 474
Db 196 TCACATTAATGCTCCAAAGATTGGCTGAGTCGAGCGCGCTGCTCCACCT---GGAGAGG 140
Qy 475 ATGTCGCCAGACGGTGTATGGACAGTTGTTGGTACCTCGATAGTAGTGGCAGCATAAGTGA 534

Db 139 CCGCGGCCGAGACTGTGTAGGTGCATTGTTGACAAATGTCAAAAGCTGGCAGCATGAGTAA 80
QY 535 AAGTCACAAA 544
Db 79 CAGCTACAAA 70

Search completed: June 17, 2005, 19:51:59
Job time : 256.501 secs

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Result No.	Score	Query Match	Length	DB	ID	Description
1	1598	100.0	1598	13	US-10-051-307-2	Sequence 2, Appli
2	1598	100.0	1598	21	US-10-903-948-2	Sequence 2, Appli
3	1482.2	92.8	1595	13	US-10-051-307-1	Sequence 1, Appli
4	1482.2	92.8	1595	21	US-10-903-948-1	Sequence 1, Appli
5	1334.4	83.5	1546	13	US-10-051-307-3	Sequence 3, Appli
6	1334.4	83.5	1546	21	US-10-903-948-3	Sequence 3, Appli
7	291.2	18.2	510	17	US-10-341-961A-371	Sequence 371, App

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DB 61 AAAAAATTGGAAGAAGCACTAGGACCAACATGACCTGGGTGCAACAATAATTTGTCCTC 120
QY 121 CAAATGTGGTGAACAAGATTGTTACATCTCTCCGGGTACTTTAAGCTGACCTAGGACATTCAC 180
DB 121 CAAATGTGGTGAACAAGATTGTTACATCTCTCCGGGTACTTTAAGCTGACCTAGGACATTCAC 180
QY 181 CATTATATATTTCCGCTGCAATGCAATTTGTTGGCAATTTCCCTCCACTTGGATTAGTCGGG 240
DB 181 CATTATATATTTCCGCTGCAATGCAATTTGTTGGCAATTTCCCTCCACTTGGATTAGTCGGG 240
QY 241 CGAAAGTCATCGGTATATTTAAATCCATCAACTAAAGAAATGTCACAGAAATCTAAGTTGT 300
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DB 301 TGAACCTGTCGAAGCGTACTCGGCTAGGCTGTTTGGTGGTTTGGCCCAACCGGTCAC 360
QY 361 GAGGACACCAACCAATCAGCTGATGCAAGCTGATGCAAGCTGATGCAAGCTGATGCAAGCTG 420
DB 361 GAGGACACCAACCAATCAGCTGATGCAAGCTGATGCAAGCTGATGCAAGCTGATGCAAGCTG 420
QY 421 ATCCAGTACGACCCCATATACGTCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
DB 421 ATCCAGTACGACCCCATATACGTCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
QY 481 TTGGCCTCGATCGAGAGCTCGGCAACCGCTATCGGCTGATCGGCTGATCGGCTGATCGG 540
DB 481 TTGGCCTCGATCGAGAGCTCGGCAACCGCTATCGGCTGATCGGCTGATCGGCTGATCGG 540
QY 541 TGGACAGTTGTTGGCGGTACCTCGATGATGATGATGATGATGATGATGATGATGATGATG 600
DB 541 TGGACAGTTGTTGGCGGTACCTCGATGATGATGATGATGATGATGATGATGATGATGATG 600
QY 601 AGGAGAAACCAAAAGAAAGCTCAAGTAGCCCATGTTTGGTGAATTTATATGTTGACA 660
DB 601 AGGAGAAACCAAAAGAAAGCTCAAGTAGCCCATGTTTGGTGAATTTATATGTTGACA 660
QY 661 AATTAATTTTGTACTTTATATATATAGGATATGGCGCTTTTGGCACTACGATATTAAT 720
DB 661 AATTAATTTTGTACTTTATATATATAGGATATGGCGCTTTTGGCACTACGATATTAAT 720
QY 721 CATTATATATACATATCATATCTTGAATTAATTAACGAAATATATTAACATATGAT 780
DB 721 CATTATATATACATATCATATCTTGAATTAATTAACGAAATATATTAACATATGAT 780
QY 781 TTGGTAAACGTTGAGTGGAATAATGATAGAGCGGCTAATAATTAATTTATGATGA 840
DB 781 TTGGTAAACGTTGAGTGGAATAATGATAGAGCGGCTAATAATTAATTTATGATGA 840
QY 841 ATATAGCCTATAGTTACAGTTTAACTTTATTTGGTGAATTTTGGATATTAACATCTGT 900
DB 841 ATATAGCCTATAGTTACAGTTTAACTTTATTTGGTGAATTTTGGATATTAACATCTGT 900
QY 901 AACGTGACGGAATTTTCTTAAACCTAAATATTAAGAGCAGCTATTTTACATTTTCG 960
DB 901 AACGTGACGGAATTTTCTTAAACCTAAATATTAAGAGCAGCTATTTTACATTTTCG 960
QY 961 TGGCCAAAGTCCTTGGCACTATCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
DB 961 TGGCCAAAGTCCTTGGCACTATCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
QY 1021 TAGGTACAGTTTGAACATAAAAAATCATAAAAATGAAAGTAAATAATTTAGTTTTTTTT 1080
DB 1021 TAGGTACAGTTTGAACATAAAAAATCATAAAAATGAAAGTAAATAATTTAGTTTTTTTT 1080
QY 1081 TTTATATTTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1140
DB 1081 TTTATATTTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1140
QY 1141 TTTAAATCACAACCAATCTGCTTAATGGGAAGTCTATGATTTGTTGCGGAAGTGTG 1200

DB 1141 TTTAAATCACAACCAATCTGCTTAATGGGAAGTCTATGATTTGTTGCGGAAGTGTG 1200
QY 1201 ATTATTTCTAGCTAGATTGGAGTCACAACCTTTTAGTCAAAATATCTATTTAAAGAACCC 1260
DB 1201 ATTATTTCTAGCTAGATTGGAGTCACAACCTTTTAGTCAAAATATCTATTTAAAGAACCC 1260
QY 1261 CTATTGATGCAAAATATCTATTTAAAGAACCCCTATTTCATCTTTATTTTATTTACGATC 1320
DB 1261 CTATTGATGCAAAATATCTATTTAAAGAACCCCTATTTCATCTTTATTTTATTTACGATC 1320
QY 1321 GGAGCATGATATATTTTAAATTTAAATTTGGGAGGAATTTGATCGACAAGCCATCA 1380
DB 1321 GGAGCATGATATATTTTAAATTTAAATTTGGGAGGAATTTGATCGACAAGCCATCA 1380
QY 1381 AGCTTATCGTGCATCCACATTTAGGATAACGTTAGTATGCTGTTTATAGAGAAACAAGTG 1440
DB 1381 AGCTTATCGTGCATCCACATTTAGGATAACGTTAGTATGCTGTTTATAGAGAAACAAGTG 1440
QY 1441 GATCATGTACAAATTTGAGTTTAAATAATCTCTATATAATACCTGCTATCCCTCTTAAAC 1500
DB 1441 GATCATGTACAAATTTGAGTTTAAATAATCTCTATATAATACCTGCTATCCCTCTTAAAC 1500
QY 1501 CAAATACATCTAAACACACACAAAATATAAACTTTAGATTCTCTTAAAGAAAATTCAGAAATTTAA 1560
DB 1501 CAAATACATCTAAACACACACAAAATATAAACTTTAGATTCTCTTAAAGAAAATTCAGAAATTTAA 1560
QY 1561 TGGAGGCAAAATAGTCTATGTTGGAAGTTGGTGTCTTTC 1598
DB 1561 TGGAGGCAAAATAGTCTATGTTGGAAGTTGGTGTCTTTC 1598

RESULT 2

US-10-903-948-2
; Sequence 2, Application US/10903948
; Publication No. US20050005324A1
; GENERAL INFORMATION:
; APPLICANT: SHI, ZIYU
; APPLICANT: SHI, LIPANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/903,948
; CURRENT FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US/10/051,307
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1598
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-903-948-2

Query Match 100.0%; Score 1598; DB 21; Length 1598;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTAATACGACTCAGCTATATAGGCGACGCGTGGTCGACGGGCCCGGCTGGTATCTTTGTTTGA 60
DB 1 GTAATACGACTCAGCTATATAGGCGACGCGTGGTCGACGGGCCCGGCTGGTATCTTTGTTTGA 60
QY 61 AAAAAATTTGGAAGAAGCACTAGGACCAACATGACCTTTGGGTGCAACAATAATTTGTTCTCTC 120
DB 61 AAAAAATTTGGAAGAAGCACTAGGACCAACATGACCTTTGGGTGCAACAATAATTTGTTCTCTC 120
QY 121 CAAATGTGGTACAGGATTTTACATCTCCGGGTACTTTAAGCTGACTAGGACATTCAC 180
DB 121 CAAATGTGGTACAGGATTTTACATCTCCGGGTACTTTAAGCTGACTAGGACATTCAC 180
QY 181 CATTATATTTGCGGTGCAATTTGAATTTGTTGGCAATTTCCCTCCACTTGGATTAGTCGGGG 240

Db 181 CATTATATTTGCGGTGCAATGAAATGTTGGGCAATTTCCCTCCACTTGGATTAGTCGGGG 240
Qy 241 CGAAAGTCATCGGTATATTAATCATCAACTAAAGAAATGTCAGAAATCTAAGTTGT 300
Db 241 CGAAAGTCATCGGTATATTAATCCATCAACTAAAGAAATGTCAGAAATCTAAGTTGT 300
Qy 301 TGAATCGTCCAAAGCGTACTCGGCTAGGGTGTGTTGGTGTGTTCCCGACCGGTGCACT 360
Db 301 TGAATCGTCCAAAGCGTACTCGGCTAGGGTGTGTTGGTGTGTTCCCGACCGGTGCACT 360
Qy 361 GCAGGACACCAACCAATCACCAGTCATGACGAACTTACACGACCCACCGAAGTTAC 420
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Qy 421 ATCCAGTACGACCCCATATAGTGCCTAGTGGCCCTAGGCGCATCAATGACCCACA 480
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Qy 541 TGGACAGTTGTTGCGGTACTCGATAGTAGTACAGCATAAAGTGAAGTCAAAAAGCCAGA 600
Db 541 TGGACAGTTGTTGCGGTACTCGATAGTAGTACAGCATAAAGTGAAGTCAAAAAGCCAGA 600
Qy 601 AGGAGAGAAACCAAGAGATCTCAAGTAGGCCCATGTTGTTGAAATTTATATGTGGACA 660
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Qy 661 AATTATTTTGGTACTTTATATATAGGATATGGCGCTTTTGGCACTACGGATATTAAT 720
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Qy 721 CGTATTATTAACAATATACACTTTGACTAATTTATAACGAAATATATACATATGAT 780
Db 721 CGTATTATTAACAATATACACTTTGACTAATTTATAACGAAATATATACATATGAT 780
Qy 781 TTGTTAAACGTTGAGTGGAAATATATAGCGCCCTAATTAATTAATTTTATGA 840
Db 781 TTGTTAAACGTTGAGTGGAAATATATAGCGCCCTAATTAATTAATTTTATGA 840
Qy 841 ATATAGCCTATAGTTACAAGTTAACTTTATTTGGTGATACTTTGACATATAAATCTGT 900
Db 841 ATATAGCCTATAGTTACAAGTTAACTTTATTTGGTGATACTTTGACATATAAATCTGT 900
Qy 901 AACGTGACGGAATTTTCTTAAACCTAAATATTAATAAGCAGCTATTTTCAATTTTCG 960
Db 901 AACGTGACGGAATTTTCTTAAACCTAAATATTAATAAGCAGCTATTTTCAATTTTCG 960
Qy 961 TGGCCAAAGTCTCTTGATATCTATGCGCAATTTTACTTTTATCGTTCTAGCCCTC 1020
Db 961 TGGCCAAAGTCTCTTGATATCTATGCGCAATTTTACTTTTATCGTTCTAGCCCTC 1020
Qy 1021 TAGGTACACGTTTGAACATATAAATAATCATAAAAATTCGAAAGTAAAAATTAAGTTTTTT 1080
Db 1021 TAGGTACACGTTTGAACATATAAATAATCATAAAAATTCGAAAGTAAAAATTAAGTTTTTT 1080
Qy 1081 TTCAATATCTCGPATCGATATTTGTTAGATCAATCTGAAATATACAAAACCAATTCGAT 1140
Db 1081 TTCAATATCTCGPATCGATATTTGTTAGATCAATCTGAAATATACAAAACCAATTCGAT 1140
Qy 1141 TTTAAAAATCAACCAATTCGCCCTAATGCGGAAGTCTATGTGATTCGTGGCAAGTGTG 1200
Db 1141 TTTAAAAATCAACCAATTCGCCCTAATGCGGAAGTCTATGTGATTCGTGGCAAGTGTG 1200
Qy 1201 AATTATCTTAGTCTAGATTTGAGTCAACAATTTTGTGCAAAATCTATTAATAAGAACCC 1260
Db 1201 AATTATCTTAGTCTAGATTTGAGTCAACAATTTTGTGCAAAATCTATTAATAAGAACCC 1260
Qy 1261 CTATTGATGCAAAATCTATTAATAAGAACCCCTATTTCATCTTTTATTTTATCGATC 1320
Db 1261 CTATTGATGCAAAATCTATTAATAAGAACCCCTATTTCATCTTTTATTTTACGATC 1320

Db 1261 CTATTGATGCAAAATCTATTAATAAGAACCCCTATTTCATCTTTTATTTTACGATC 1320
Qy 1321 GGAGCATGGATATATTTACTAAATTAATAATTTGGGAGGAATGTATCGACAAGCCATCA 1380
Db 1321 GGAGCATGGATATATTTACTAAATTAATAATTTGGGAGGAATGTATCGACAAGCCATCA 1380
Qy 1381 AGCTTATCGTCGATCCACATTAGGATAACGTTAGTATGGCTGTTTTTAGAGAAACAAGTG 1440
Db 1381 AGCTTATCGTCGATCCACATTAGGATAACGTTAGTATGGCTGTTTTTAGAGAAACAAGTG 1440
Qy 1441 GATCATGTACAATTTAGTTTAAATAATCTCTTATAAATACCTGTCTATCCCTCTTAAC 1500
Db 1441 GATCATGTACAATTTAGTTTAAATAATCTCTTATAAATACCTGTCTATCCCTCTTAAC 1500
Qy 1501 CAAATACATCTAACACACAAAAATATAAATCTTAGATTCTTTAAAGAAATTCGAGAAATAA 1560
Db 1501 CAAATACATCTAACACACAAAAATATAAATCTTAGATTCTTTAAAGAAATTCGAGAAATAA 1560
Qy 1561 TGGAGGCAAAATAAGTCTATCGTGAAGTTGGTTGCTTTC 1598
Db 1561 TGGAGGCAAAATAAGTCTATCGTGAAGTTGGTTGCTTTC 1598

RESULT 3
US-10-051-307-1
; Sequence 1, Application US/10051307
; Publication No. US20020170095A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/051,307
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1595
; TYPE: DNA
; ORGANISM: Solanum tuberosum
; US-10-051-307-1

Query Match 92.8%; Score 1482.2; DB 13; Length 1595;
Best Local Similarity 96.7%; Pred. No. 0;
Matches 1546; Conservative 0; Mismatches 48; Indels 5; Gaps 3;

Qy 1 GTAATACGACTCACTATAGGGCACGGTGGTCCGACGGCCCGGGCTGGTATCTTTGTTTGA 60
Db 1 GTAATACGACTCACTATAGGGCACGGTGGTCCGACGGCCCTGGCTGGTATCTTTGTTTGA 60
Qy 61 AAAAAATTGGAAGAACGTTAGGACCAACATGGAACCTTGGGTGCAACAATATTTGTTCTC 120
Db 61 AAAAAATTGGAAGAACGTTAGGACCAACATGGAACCTTGGGTGCAACAATATTTGTTCTC 120
Qy 121 CAAATGGTGTACAAGGATTTGTACATCTCCGGTACTTTAAGCTGACTAGGACATTCAC 180
Db 121 CAAATGGTGTACAAGGATTTGTACATCTCCGGTACTTTAAGCTGACTAGGACATTCAC 180
Qy 181 CATTATATTTGCGGTGCAATTTGATGTTGTTGCAATTTCCCTCCTTGGATTTAGTCGGGG 240
Db 181 CATTATATTTGCGGTGCAATTTGATGTTGTTGCAATTTCCCTCCTTGGATTTAGTCGGGG 240
Qy 241 CGAAAGTCATCGGTATATTAATTAATAATCCATCAACTAAAGAAATGTCCAGAAATCTAAGTTGT 300
Db 241 CGAAAGTCATCGGTATATTAATTAATAATCCATCAACTAAAGAAATGTCCAGAAATCTAAGTTGT 300
Qy 301 TGAATCGTCCAAAGCGTACTCGGCTAGGGTGTGTTGGTGTGTTGCCCGACCGGTGCACT 360
Db 301 TGAATCGTCCAAAGCGTACTCGGCTAGGGTGTGTTGGTGTGTTGCCCGACCGGTGCACT 360

361 GCAGGACACACCAATCACCAGTCATGCAACCTCTACGACACCCAGAGTTAC 420
Db
361 GCAGGACACACCAATCACCAGTCATGCAACCTCTACGACACCCAGAGTTAC 420
Qy
421 ATCCAGTACGACCCCATATACGTCATCGTAGTCCCTAGGCGCATCAATGACCCACA 480
Db
421 ATCCAGTACGACCCCATATACGTCATCGTAGTCCCTAGGCGCATCAATGACCCACA 480
Qy
481 TTGGCCTCGATCGAGACGTGGGACCCGCTATCGGTCGATGGCGCCCAACGATGTA 540
Db
481 TTGGCCTCGATCGAGACGTGGGACCCGCTATCGGTCGATGGCGCCCAACGATGTA 540
Qy
541 TCGACAGTTGTTGGCGTACCTCGATAGTACAGATAGTGAAGTACAAAACGACA 600
Db
541 TCGACAGTTGTTGGCGTACCTCGATAGTACAGATAGTGAAGTACAAAACGACA 598
Qy
601 AGGAGAAACCAAAAGAGATCTCAAGTAGCCCATGTTGTTGAAATTTATATGAGACA 660
Db
599 AGGAGAAACCAAAAGAGATCTCAAGTAGCCCATGTTGTTGAAATTTATATGAGACA 658
Qy
661 AATTATTTTGTACTTTATATATAGGATATGGCGCTTTTGGCACTACGATATTAAT 720
Db
659 AATTATTTTGTACTTTATATATAGGATATGGCGCTTTTGGCACTACGATATTAAT 718
Qy
721 CGTATTATATAAATATCATCTTTGACTAATTAACGAAATATATTAATATGATGAT 780
Db
719 CGTATTATATAAATATCATCTTTGACTAATTAACGAAATATATTAATATGATGAT 778
Qy
781 TTGGTAAACGTTGAGGTGAAATATGATAGAGCGGCTTAATTAATTTATGATGA 840
Db
779 TTGGTAAACGTTGAGGTGAAATATGATAGAGCGGCTTAATTAATTTATGATGA 838
Qy
841 ATATAGCCTATAGTTACAAGTTAACTTTATTTGGTGATTAACCTTGACATATAAATCTGT 900
Db
839 ATATAGCCTATAGTTACAAGTTAACTTTATTTGGTGATTAACCTTGACATATAAATCTGT 898
Qy
901 AACGTGACGGAAATTTTCTTAAACCTAAATATTAAGAGCAGCTATTTTCAATTTTCG 960
Db
899 AACGTGACGGAAATTTTCTTAAACCTAAATATTAAGAGCAGCTATTTTCAATTTTCG 958
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961 TGGCCAAAGTCTCTTGCACTATCTATGCCCATTTTATCTTTTATCGTCTAGCCCTC 1020
Db
959 TGGCCAAAGTCTCTTGCACTATCTATGCCCATTTTATCTTTTATCGTCTAGCCCTC 1018
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1021 TAGGTACAGCTTGAACATAAATAATCATAAATAATGAAGTAAATAATAGTTTTTTTT 1080
Db
1019 TAGGTACAGCTTGAACATAAATAATCATAAATAATGAAGTAAATAATAGTTTTTTTT 1078
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1081 TTCAATTAATCTGTAGGATCAATTTGTTAGATCAATCTGAAATATACAAACCATCTGAT 1140
Db
1079 TTCAATTAATCTGTAGGATCAATTTGTTAGATCAATCTGAAATATACAAACCATCTGAT 1138
Qy
1141 TTTAAATCACAACCAATCTGCTAATGGGGAAGTCTATGTGATTCGTGGCAAGT - GTTT 1199
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1139 TTTAAATCACAACCAATCTGCTAATGGGGAAGTCTATGTGATTCGTGGCAAGTGGTTT 1196
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1200 GATTATCTTAGTCTAGATGAGTCAAACTTTTAGTGCAATATCTATTAAGAAC 1259
Db
1197 GATTATCTTAGTCTAGATGAGTCAAACTTTTAGTGCAATATCTATTAAGAAC 1256
Qy
1260 CTTATTTGATGCAATATCTATTAAGAACCCCTATTCATCTTTATTTATTTTACGAT 1319
Db
1257 CTTATTTGATGCAATATCTATTAAGAACCCCTATTCATCTTTATTTATTTTACGAT 1316
Qy
1320 CGGAGCATGGATATATTTACTAATTAATAAATTTGGGAGGAATTTGATCGAACCCATC 1379
Db
1317 CGGAGCATGGATATATTTACTAATTAATAAATTTGGGAGGAATTTGATCGAACCCATC 1376
Qy
1380 AAGCTTATCGTCGATCCACATTTAGGATTAACGTTAGTATGGCTGTTTTTAGAGAAACAAGT 1439
Db
1377 AAGCTTATCGTCGATCCACATTTAGGATTAACGTTAGTATGGCTGTTTTTAGAGAAACAAGT 1436
Qy
1440 GGATCATGTACAATTTAGTTAAAAAATATCTCTTAATAATACCTGTCTATCCCTCTTAA 1499

1437 GGATCATGTACAATTTAGTTTAAATATCTCTTAATAATATCTATATATACCTCTAAAA 1496
Db
1500 CCAATAATCATTAACACACAAATATAAATAGATTCCTTAAAGAAATTTGAGAAATTA 1559
Qy
1497 CTAATATGATCTTAACACACAAATATAAATAGATTCCTTAAAGAAATTTGAGAAATTA 1556
Db
1560 ATGGAGGCAATATAGTCTATGTTGAAGTTGTTGCTTTC 1598
Qy
1557 ATGGAGGCAATATAGTCTATGTTGAAGTTGTTGCTTTC 1595
Db
RESULT 4
US-10-903-948-1
; Sequence, Application US/10903948
; Publication No. US20050005324A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/903,948
; CURRENT FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US/10/051,307
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1595
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-903-948-1
Query Match 92.8%; Score 1482.2; DB 21; Length 1595;
Best Local Similarity 96.7%; Pred. No. 0;
Matches 1546; Conservative 0; Mismatches 48; Indels 5; Gaps 3;
Qy 1 GTAATACGACTCACTATATAGGCGACGCGTGGTCGACGGCCCGGCTGGTATCTTTGTTGA 60
Db 1 GTAATACGACTCACTATATAGGCGACGCGTGGTCGACGGCCCGGCTGGTATCTTTGTTGA 60
Qy 61 AAAAATTCGAAAAGAACGCTAGGACCAATGACGACCTTGGGTGCAACAATATGTTGCTC 120
Db 61 AAAAATTCGAAAAGAACGCTAGGACCAATGACGACCTTGGGTGCAACAATATGTTGCTC 120
Qy 121 CAAATGTCGTACAAGGATTTTACATCTCGGGTACTTTAAGCTGACTTAGGACATTCAC 180
Db 121 CAAATGTCGTACAAGGATTTTACATCTCGGGTACTTTAAGCTGACTTAGGACATTCAC 180
Qy 181 CATTTATATTTCCGTCGATTAATGTTGTGGCAATTTCCCTCACTTTAGTTCGGG 240
Db 181 CATTTATATTTCCGTCGATTAATGTTGTGGCAATTTCCCTCACTTTAGTTCGGG 240
Qy 241 CGAAAGTCATCGGTATATTAATCCATCAACTAAAGAAATGTCACGAAATCTAAGTTGT 300
Db 241 CGAAAGTCATCGGTATATTAATCCATCAACTAAAGAAATGTCACGAAATCTAAGTTGT 300
Qy 301 TGAACGTGTCGAAAGCGTACTCGGCTAGGCTGTTTGGTGGTCCCAACCGGTCGACT 360
Db 301 TGAACGTGTCGAAAGCGTACTCGGCTAGGCTGTTTGGTGGTCCCAACCGGTCGACT 360
Qy 361 GCAGGACACCCACCAATCAGGTCATGCGCAATCTTACACGACCAACCGAAGTTAC 420
Db 361 GCAGGACACCCACCAATCAGGTCATGCGCAATCTTACACGACCAACCGAAGTTAC 420
Qy 421 ATCCAGTACGACCCCATATATGTCGCAATCTAGTCCCTTAGGCGCATCAATGACCCACA 480
Db 421 ATCCAGTACGACCCCATATATGTCGCAATCTAGTCCCTTAGGCGCATCAATGACCCACA 480
Qy 481 TTTGSCCTCGATCGAGACGTGCGGCGACCGCCTATCGGTCGATGCGGCCCAACGATGTA 540

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Db 481 |TTGGCCCGCATCGAAACGTCGGCACCCGCTTTTCGGGGTCGATCGCCCAACGATGTA 540
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Db 541 TGGACAGTTGTGGCGGTACCTCGATAGTACAGCATAGTGAAAGTCACAAAAGCCAGA 600
|
Db 541 TGGACAGTTGTG--CGTACCTCGATAGTGGCAGCATAGTGAAAGTCACAAAAGCAAGA 598
|
Qy 601 AGGGAGAACCAAAAGAGATCTCAAGTAGCCCATGTTTGTGTGAAATTTATATGTGGACA 660
|
Db 599 AGGGAGAAAAACAAAAGAGATCTCAAGTAGCCCATGTTTGTGTGAAATTTATATGTGGACA 658
|
Qy 661 AATATTTTGTGACTTTATATATAGGATATGGCGCTTTTGGCACTACGGATTAAT 720
|
Db 659 AATATTTTGTGACTTTATATATAGGATATGGCGCTTTTGGCACTACGGATTAAT 718
|
Qy 721 CGTATATATAACAATATCATCTTTGACTTAATATAACGAAATATATTAACAATATGAT 780
|
Db 719 CGTATATATAGCAATATCATCTTTGACTTAATATAACGAAATATATTAACAATATGAT 778
|
Qy 781 TTGTPAAACGTTGAGGTGGAATAATGTATAAGAGCCGCTAATTAATTAATTTTATGA 840
|
Db 779 TTGTPAAACGTTGAGGTGGAATAATGTATAAGAGCCGCTAATTAATTAATTTTATGA 838
|
Qy 841 ATATAGCCTATAGTTACAAGTTAACTTTATTTGGTGATAACTTTTGACATATAAATCTGT 900
|
Db 839 ATATAGCCTATAGTTACAAGTTAACTTTATTTGGTGATAACTTTTGACATATAAATCTGT 898
|
Qy 901 AACGTGACGGAATTTTCTTAAACCTAAATATTAATAAGAGCAGCTATTTTACATTTTCG 960
|
Db 899 AACGTGACGGAATTTTCTTAAACCTAAATATTAATAAGAGCAGCTATTTTACAGATTTTCG 958
|
Qy 961 TGGCCAAAGTCTCTTGCACTATCTATGATGCCATTTTATCTTTTATCGTTCTAGCCCTTC 1020
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Db 959 TGGCCAAAGTCTCTTGCACTATCTATGATGCCATTTTATCTTTTATCGTTCTAGCCCTTC 1018
|
Qy 1021 TAGGTACACGTTTGAACATAAAAAATCATAAAAATTTGAAAGTAAAAATAGTTTATTTT 1080
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Db 1019 TAGGTACACGTTTGAACATAAAAAATCATAAAAATTTGAAAGTAAAAATAGTTTATTTT 1078
|
Qy 1081 TTCAATATTACTCGTATGATCATTTGTTAGATCAATCTGTAATATACAAACCATCTCGAT 1140
|
Db 1079 TTCAATATTACTCGTATGATCATTTGTTAGATCAATCTGTAATATACAAACCATCTCGAT 1138
|
Qy 1141 TTTAAATCAACAACCATTTCTGCTAAATGGGGAAGTCTATGTGATTCGTGGCAAGT-GTTT 1199
|
Db 1139 TTTAAATCAACAACCATTTCTGCT--AGGGGAAGTCTATGTGATCCGTGACAGTGGTTT 1196
|
Qy 1200 GATTATTTCTAGTCTAGATTCGAGTCACAACTTTTGTAGTCAAAATATCTATTAAAGAAC 1259
|
Db 1197 GATTATTTCTAGTCTAGATTCGAGTCACAACTTTTGTAGTCAAAATATCTATTAAAGAAC 1256
|
Qy 1260 CCTATTGATGCATAATCTATTAAAGAACCCCTATTTCATATCTTTATTTTACGAT 1319
|
Db 1257 CCTATTGATGCATAATCTATTAAAGAACCCCTATTTCATATCTTTATTTTACGAT 1316
|
Qy 1320 CGGAGCATGGATATATTACTAAATTTAAATTTGGAGGAATTTGATCGACAAGCCATC 1379
|
Db 1317 CGGAGCATGGATATATTACTAAATTTAAATTTGGAGGAATTTGATCGACAAGTCATC 1376
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|
Qy 1440 GGATCATGTCAATTTAGTTTAAATAATATCTCTTATAAATACCTGTCTATCCCTCTTAAA 1499
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Db 1437 GGATCATGTCAATTTAGTTTAAATAATATCTCTTATAAATATCTATATATATACCTCTTAAA 1496
|
Qy 1500 CCAATAATCATCTAACACACAAAAATATAAATCTAGATTCCTTAAAGAAATTCGCAATTA 1559
|
Db 1497 CTAATGCAATCTAACACAAAAATATAAATCTAGATTCCTTAAAGAAATTCGCAATTA 1556
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Qy 1560 ATGAGGCAAAATAGTCTATGGTGAAGTTGGTTCCTTTC 1598
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Db 1557 ATGAGGCAAAATAAGTCTATGGTGAAGTTGGTTCCTTTC 1595

RESULT 5

US-10-051-307-3
; Sequence 3, Application US/10051307
; Publication No. US20020170095A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.

; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/051,307
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1546
; TYPE: DNA
; ORGANISM: Solanum tuberosum
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1248)
; OTHER INFORMATION: a, t, c or g

US-10-051-307-3

Query Match 83.5%; Score 1334.4; DB 13; Length 1546;
Best Local Similarity 93.8%; Pred. No. 2.3e-283;
Matches 1456; Conservative 0; Mismatches 87; Indels 10; Gaps 6;

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Qy 49 ATCTTTTGTGAAAAAATTTGAAAAAGAACGTAGACACACATGGACCTTTGGGTGCACAAT 108
Db 1 ATCTTTTGTGAAAAAATTTGAAAAAGAACGTAGACACACATGGACCTTTGGGTGCACAAT 60
Qy 109 ATTCTGTCTCTCCAAATGTGTACAAGATTGTTTACATCTCTCCGGGTACTTTTAGCTCAC 168
Db 61 ATTGTGTCTCTCCAAATGTGTACAAGATTGTTTACATCTCTCCGGGTACTTTTAGCTCAC 120
Qy 169 TAGGACATTCACCAATTTATATTTGCCGTGCAATTTGATGTCGCAATTTCCCTCCACTTG 228
Db 121 TAGGACATTCACCAATTTATATTTGCCGTGCAATTTGATGTCGCAATTTCCCTCCACTTG 180
Qy 229 GATTAGTCGGGGCAAAAGTCATCGGTATATTTAAATTCATCAACTAAAGAAATGTCACAGA 288
Db 181 GATTAGTCGGGGCAAAAGTCATCGGTATATTTAAATTCATCAACTAAAGAAATGTCACAGA 240
Qy 289 AATCTAAGTTGTTGAACCTGTCCAAGGGGTACTCGGCTAGGTGTTTGGTGGTTTGCCCC 348
Db 241 AATCTAAGTTGTTGAACCTGTCCAAGGGGTACTCGGCTAGGTGTTTGGGCGGTTTACCCC 300
Qy 349 ACCCGGTGCACTGCAGGACACACCACCAATCACCAGTCATGCACGAACTCTACAGCAC 408
Db 301 ACCCGGTGCACTGCAGGACACACCACCAATCACCAGTCATGCACGAACTCTACAGCAC 360
Qy 409 CACCGAAGTTACATTCAGTACGACCCCATATATACGTGCCATCGTAGTGCCTTACGGCGAT 468
Db 361 CATCGAAGTTACATTCAGTACGACCCCATATATACGTGCCATCGTAGTGCCTTACGGCGAT 420
Qy 469 CAATGACCCACATTTGCGCTCGATCGAGAGCTGGGCAACCGCTATC-GGGTCGATGCCG 527
Db 421 CAATGACCCACATTTGCGCTCGATCGAGAGCTGGGCAACCGCTATCGGGGTTCATGCTG 480
Qy 528 CCCAAACGATGTATGACAGTGTGTGGCGGTACTCGTAGTAGTGACAGATAAGTGAAGT 587
Db 481 CCCAGACGTTATGACAGTGTGTG--CGTACCTCGATGTGCGACGATTAAGTGAAGT 538
Qy 588 CACAAAAGCCAGAGGAGAGAAACAAAAGAAAGATCTCAAGTAGGCCCATGTTTGTGAAT 647
Db 539 CACAAAAGCAAGAGGAGAGAAACAAAAGAAAGATCTCAAGTAGGCCCATGTTTGTGAAT 598
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QY 648 TTATATGGGCAAAATATTTTGGTACTTTATATATAGGATATGGCGCTTTGGCAC 707
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QY 599 TTATATGGGCAAAATATTTTGGTACTTTATATATAGGATATGGCGCTTTGGCAC 658
Db |||||
QY 708 TAGGATATTAATCGTATATATAACAATATCATCTTTGACTAATTAATAACGAATAT 767
Db |||||
QY 659 TATGATATTAATCGTATATATAACAATATCATCTTTGACTAATTAATAACGAATAT 718
Db |||||
QY 768 ATTACAAATATGATTTGGTAAAGCTTTGAGTGGAAATGTATAAGAGCGGCTTAATAT 827
Db |||||
QY 719 ATTACAAATATGATTTGGTAAAGCTTTGAGTGGCAAAATGTATAAGAGCGGCTTAATAT 778
Db |||||
QY 828 AATATTTTATGAATATAGCCCTATAGTTACAGTTAACTTTATTTGGTGATAACTTTGAC 887
Db |||||
QY 779 AATATTTTATGAATATAGACTATAGTTACAGTGAACTTTATTTGGTGATAACTTTGAC 838
Db |||||
QY 888 ATATAAACTCTGTAACGTAAGGAAATTTTCTTAAACTAAATATTAATAAGAGCGCTATTT 947
Db |||||
QY 839 ATATAAACTCTGTAACGTAAGGAACTTTTCTTAAACTAAATATTAATAAGAGCGCTATTT 898
Db |||||
QY 948 TTCACATTTTTCGTCGCCAAAGTCTCTTGCATACCTTATCTATGCCCATTTTTACTTTTAT 1007
Db |||||
QY 899 TTAATATTTTTCGTCGCCAAAGTCTCTTGCATACCTTATCTATGCCCATTTTTACTTTTAT 958
Db |||||
QY 1008 CTTTCTAGCCTTCTAGGTACACGTTTGAACATATAAAATCATATAAAATTTGAAAGTAAAAA 1067
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QY 959 CGTTCTAGCCTTCTAGGTACGCTTTGAACATATAAAATCATATAAAATTTGAAAGTAAAAA 1018
Db |||||
QY 1068 TTAGTTTTTTTTTTCATATATCTCGTATGATCAATTTGTAGATCAATCTGAATATATAC 1127
Db |||||
QY 1019 TTAG--TTTTTTTTTTCATATATCTCGTATGATCAATTTGTAGATCAATCTGAATATATAC 1075
Db |||||
QY 1128 AAACCATCTGATTTTAAATACACAACTCTGCTAATGGGAAGTCTAT--GTGATTC 1186
Db |||||
QY 1076 AAATCATCTGATTTTAAATCATAACTATTTCTGATGATGGGAAGTCTATGGTATTC 1135
Db |||||
QY 1187 GTGGCAAGTGTGTA--TTATTTCTAGTCTAGATTCGAGTCAAACTTTTAGTGCAAAAT 1245
Db |||||
QY 1136 GTGACAAGTGTGTAATTTATTTCTAGTCTAGTCTGAGTCAAACTTTTAGTGCAAAAT 1195
Db |||||
QY 1246 CTATTTAAAGAACCCCTATTTGATGCAAAATATCTATTTAAAGAACCCCTATTTACTTTTA 1305
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QY 1196 CTATTTAAAGAACCCCTATTTGATGCAAAAGTCAATAAA--TATTTAATATCATNCTTTTA 1253
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QY 1434 ATATACCTCTTAAACTTAAATGATCTTAACACACAAATATATAACTTAGATCTCTTTAAGA 1493
Db |||||
QY 1546 AATTCAGAAATTAATGGAGGCAAAATAGTCTATGGTGAAGTTGGTGTCTTC 1598
Db |||||
QY 1494 AATTCAGAAATTAATGGAGGCAAAATAGTCTATGGTGAAGTTGGTGTCTTC 1546
Db |||||
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RESULT 6

US-10-903-948-3

; Sequence 3, Application US/10903948

; Publication NO. US200500053241

; GENERAL INFORMATION:

; APPLICANT: DAI, ZIYU

; APPLICANT: SHI, LIPANG

; APPLICANT: HOOKER, BRIAN S.

```
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/903,948
; CURRENT FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US/10/051,307
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1546
; TYPE: DNA
; ORGANISM: Solanum tuberosum
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1248)
; OTHER INFORMATION: a, t, c or g
US-10-903-948-3
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Query Match 83.5%; Score 1334.4; DB 21; Length 1546;

Best Local Similarity 93.8%; Pred. No. 2.3e-283; Indels 10; Gaps 6;
Matches 1456; Conservative 0; Mismatches 87;

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QY 49 ATCTTTGTTTGAAGAAATTTGAAAGAACGCTAGGACCAACATGGACCTTTGGGTGCAACAAT 108
Db 1 ATCTTTGTTTGAAGAAATTTGAAAGAACGCTAGGACCAACATGGACCTTTGGGTGCAACAAT 60
QY 109 ATTGTTGTCCTCCAAATGTGGTACAAGATTGTTACATCTCTCCGGGTACTTTAGCTGAC 168
Db 61 ATTGTTGTCCTCCAAATGTGGTACAAGATTGTTACATCTCTCCGGGTACTTTAGCTGAC 120
QY 169 TAGGACATTCACCAATTTATATTTCCGCTGCAATTCGAATTTGTGTGCATTTCCCTCCACTTG 228
Db 121 TAGGACATTCACCAATTTATATTTCCGCTGCAATTCGAATTTGTGTGCATTTCCCTCCACTTG 180
QY 229 GATTAGTCGGGGCGAAAGTCAATCGGTATATTTAAATCCATCAACTAAAGAAATGTCGCCAGA 288
Db 181 GATTAGTCGGGGCGAAAGTCAATCGGTATATTTAAATCCATCAACTAAAGAAATGTCGCCAGA 240
QY 289 AATCTAAGTTGTTGAACTGTGTCGAGGCTACTCGGTAGGGTGTGTTGGGTGTTGCCCC 348
Db 241 AATCTAAGTTGTTGAACTGTGTCGAGGCTACTCGGTAGGGTGTGTTGGGTGTTGCCCC 300
QY 349 ACCGGTGCATCTGAGAGCACCAACCAATCACCAGTCATCGACGAACCTCTACGAGCAC 408
Db 301 ACCGGTGCATCTGAGAGCACCAACCAATCACCAGTCATCGACGAACCTCTACGAGCAC 360
QY 409 CACGAAAGTTACATCCAGTACGACCCCATATACGTGCCATCGTAGTGCCCTTAGGCGCAT 468
Db 361 CATCGAAGTTACATCCAGTACGACCCCATATACGTGCCATCGTAGTGCCCTTAGGCGCAT 420
QY 469 CAATGACCCACATTTGGCTCGATCGAGACGTCGGGCAACCCGCTATC--GGGTGATGCGG 527
Db 421 CAATGACCCACATTTGGCTCGATCGAGACGTCGGGCAACCCGCTATC--GGGTGATGCGG 480
QY 528 CCCAAAACGATGTATGGACAGTTGTTGGCGGTACCTCGATAGTGAACAGCATTAAGTGAAGT 587
Db 481 CCCAGACGTTGTATGGACAGTTGTTG--CGTACCTCGATAGTGGCAGCATTAAGTGAAGT 538
QY 588 CACAAAACCCAGAGGGAGAAACCAAAAGAAAGATCTCAAGTAGGCCCTGTTGTTGTAAT 647
Db 539 CACAAAACCCAGAGGGAGAAACCAAAAGAAAGATCTCAAGTAGGCCCTGTTGTTGTAAT 598
QY 648 TTATATGGGCAAAATATTTTGGTACTTTATATATAGGATATGGCGGCTTTTGGCAC 707
Db 599 TTATATGGGCAAAATATTTTGGTACTTTATATATAGGATATGGCGGCTTTTGGCAC 658
QY 708 TACGGATTAATCGTATTTATATAACATATCATCTTTTGTACTAATTAATAACGAATAT 767
Db 659 TATGGATTAATCGTATTTATATAACAATATCATCTTTTGTACTAATTAATAACGAATAT 718
QY 768 ATTACAAATATGATTTTGGTAAACGTTGAGTGGAAAAAATGTATAAGAGCGGCTTAATAT 827
```

Db 719 ATTACAATATGATTTGGTAAACGTTAGGTGGCAAAATGATATAAGACCCGCTTAATATT 778
Qy 828 AATTATTATTGAATATAGCCTATAGTTACAAAGTTAACTTTATTTCGTGTAACTTTTGAC 887
Db 779 AATTATTATTGAATATAGACTATAGTTACAAAGTTAACTTTATTTCGTGTAACTTTTGAC 838
Qy 888 ATATAAACTCTGTAACGTGACGGAATTTTCTTAAACTAAATATTAAAGACGACTATT 947
Db 839 ATATAAACTCTGTAACGTGACGGAATTTTCTTAAACTAAATATTAAAGACGACTATT 898
Qy 948 TTCAATTTTCGTCGCAAGTCTCTGCACTATCTATGCGCAATTTTACTTTTAT 1007
Db 899 TTAATATTTCGTCGCAAGTCTCTGCACTATCTATGCGCAATTTTACTTTTAT 958
Qy 1008 CGTTCTAGCCTTCCTAGGTACACAGTTTGAACATAAAATCATAAATTTGAAAGTAAATA 1067
Db 959 CGTTCTAGCCTTCCTAGGTACACAGTTTGAACATAAAATCATAAATTTGAAAGTAAATA 1018
Qy 1068 TTAGTTTTTTTTTTCATATTACTCGTATGATCAATTTGTTAGATCAATCTGAAATATAC 1127
Db 1019 TTAG---TTTTTTTTCATATTACTCGTATGATCAATTTGTTAGATCAATCTGAAATATAC 1075
Qy 1128 AACCATTCTGATTTTAAATACAAACATCTCTGCTTAATGCGGAAGTCTAT-GTGATTC 1186
Db 1076 AATCATCTGATTTTAAATACAAACATCTCTGCTTAATGCGGAAGTCTATGCGGATTC 1135
Qy 1187 GTGCAAGTGTTCGA-TTATTTCTAGTCTAGTTGAGTACAACTTTTATGTCGAAATAT 1245
Db 1136 GTGCAAGTGTTCGATTTTCTAAGTCTGATGAGTACAACTTTTATGTCGAAATAT 1195
Qy 1246 CTATTAAGAAACCCCTATTGATGCAATATCTATTAAGAAACCCCTATTTCATCTTA 1305
Db 1196 CTATTAAGAAACCCCTATTGATGCAATATCTATTAAGAAACCCCTATTTCATCTTA 1253
Qy 1306 TTTATTTTACGATCGAGCATGATATATTACTAATTAATAAATTCGGAGGAATG 1365
Db 1254 TTTATTTTACGATCGAGCATGATATATTACTAATTAATAAATTCGGAGGAATG 1313
Qy 1366 ATGACAAGCATCAAGCTTATCGTCGATCCACATTTAGGATAAGCTTAGTATGCTGTT 1425
Db 1314 ATGACAAGCATCAAGCTTATCGTCGATCCACATTTAGGATAAGCTTAGTATGCTGTT 1373
Qy 1426 TTAGAGAAACAGTGGATCATGTAATTTAGTTTAAATAATCTCTATAAATACCTGT 1485
Db 1374 TTAGAGAAACAGTGGATCATGTAATTTAGTTTAAATAATCTCTATAAATACCTGT 1433
Qy 1486 CTATCCCTCTTAAACCAATACATCTAACACAAAATATAAATTAAGTTAGTTCTTAAAGA 1545
Db 1434 ATATACCTCTTAAACCAATACATCTAACACAAAATATAAATTAAGTTAGTTCTTAAAGA 1493
Qy 1546 AATTGCAGATTAATGAGGCAAAATAGTCTATGTTGAAGTTGGTTGCTTTC 1598
Db 1494 AATTGCAGATTAATGAGGCAAAATAGTCTATGTTGAAGTTGGTTGCTTTC 1546

RESULT 7

US-10-341-961A-371/c
; Sequence 371, Application US/10341961A
; Publication No. US2004000678A1
; GENERAL INFORMATION:
; APPLICANT: Boyce Thompson Institute for Plant Research, Inc.
; APPLICANT: Crasta, Oswald
; APPLICANT: Swirsky, Peter
; APPLICANT: Mysore, Kiran
; APPLICANT: Folkerts, Otto
; APPLICANT: Martin, Gregory
; APPLICANT: Ekengren, Sophia
; TITLE OF INVENTION: PLANT DEFENSE-RELATED GENES REGULATED IN RESPONSE TO PLANT-PATHOGEN
; FILE REFERENCE: BTI.67A2
; CURRENT APPLICATION NUMBER: US/10/341.961A

; CURRENT FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: 60390249
; PRIOR FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: 60261029
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60348792
; PRIOR FILING DATE: 2002-01-14
; NUMBER OF SEQ ID NOS: 395
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 371
; LENGTH: 510
; TYPE: DNA
; ORGANISM: Lycopersicon esculentum
US-10-341-961A-371

Query Match 18.2%; Score 291.2; DB 17; Length 510;

Best Local Similarity 78.1%; Pred. No. 6.5e-54;
Matches 350; Conservative 0; Mismatches 98; Indels 0; Gaps 0;

Qy 49 ATCTTTGTTTGAATAAATTTGAAAGAACCTAGGACCAATGGACCTTTGGGTGCAACAAT 108
Db 448 ATCTTTGTTTGAATAAATTTGAAAGAACCTAGGACCAATGGACCTTTGGGTGCAACAAT 389
Qy 109 ATTGTTGTTCTCCAAATGTTGTTACAGGATTTTACATCTCCGGTACTTTAAAGCTGAC 168
Db 388 ATTGTTGTTCTCCGAATGTTGTACAAGGGTTGTTACATCTCCAGGTACCTTAAGTGAAC 329
Qy 169 TAGGACATTCACCATTTATATTTCGGTGCATTTGAATTTGTTGTCATTTCCCTCCACTTG 228
Db 328 CAGGGCAATTCACGGTTTATATTGCTGTGTCATTTGAATTTGATGACATTTTCCAGGGCAG 269
Qy 229 GATTAGTGGGGGAAAGTCTATCGGTATATTAATCCATCAACTAAAGAAATGTCCAGAGA 288
Db 268 GCTTAGTTGGCCAAAGACATAGGGATTTGTAATCCATCAATAACAGAAATATCCCAA 209
Qy 289 AATCTAAGTTTGTAACTGTGTCAGGCGTACTCGGCTAGGGTGTGTTGGTGGTGGCCCC 348
Db 208 AATCTAGTTTACCAAACTGGTTCAAAAGCGTATTCAGCTAAGGTGTTTGGTGGTGTACCCC 149
Qy 349 ACCGGTGTCACTCAGGACACACCAACATCACCAGTCTACGACGACCTTACCCAGCAC 408
Db 148 ATCTTTGCAATCCAGACTCCACCAACATCAGCTGTGCGACCAACCTCTTCCAGCAC 89
Qy 409 CACCGAAGTTTACATCCAGTACGACCCCATATAGTGCATCGTAGTGCCTTAGGCGCAT 468
Db 88 CATCAAGTTGCAATTTAGTACGACCCCAATAGTGCAATTTTAGTCCAGGTGGGGCCC 29
Qy 469 CAATGACCCACATTTGGCCTCGATCGAG 496
Db 28 AAAACCAACCAACTCTGACCTCTCTCGAG 1

RESULT 8

US-09-938-842A-2118/c
; Sequence 2118, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPT1300-3
; CURRENT APPLICATION NUMBER: US/09/938.842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379

```
; SEQ ID NO 2118
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-09-938-842A-2118

Query Match      11.7%; Score 186.8; DB 9; Length 735;
Best Local Similarity 62.4%; Pred. No. 7.5e-31;
Matches 367; Conservative 0; Mismatches 202; Indels 19; Gaps 4;

QY 46 GGTATCTTTGTTTGAAGAAATGGAAAGACGTAGGACCAATG-----GACCTTGGG 99
DB 586 GGCATCTCTGCTTAAAGAAATCTTGAGTACTCAGTATCGCTACATGATCCCTGACCGTTTCG 527
QY 100 TCAACAATATTTGTTGCTCCAAATGGTGTACAGGATTTGTTACATCTCCGGGTACTTT 159
DB 526 TACAACAGTATTTGGTTCGTTCTGAAATACAGTACACGGGTTGTTGATCCACCTGGGGTTC 467
QY 160 TAAGCTGACTAGGACATTCACCAATTTATTTTCCGCTGCATTGAAATTTGTGGCATTTCC 219
DB 466 TCAACACGTTTGGACATTTGTCGTTTATGTTCTGCGGTACATAGTATCCGATGGCAGTTTC- 408
QY 220 CTCCTACTTGGATTAGTTCGGGGCGAAAGTCACTCGGTATATTAATCCATCAACTAAAGAAA 279
DB 407 -----GAACTAGTTGGGCTAAACTCCATAGGTATGTTAAATCCATCGACAAGTGAGA 356
QY 280 TGTCCAGAAATCTAAGTTTGAATCTGGTCCAGGCGTACTCGGCTAGGTTGTTGGTG 339
DB 355 TATCGTAGAAGTCTAAGTTTGAATTTGAAATTTGTTTCAAGCGTACTCAGCCAACTGTTTGGTG 296
QY 340 GTTTCGCCACCCCGGTGCACTCCAGGACACACCAATCACCAGTCATGCACGAACCTC 399
DB 295 GCTGTCCCGCAGCAGTACATTTGGAGTCCACCACTGCACTGCACTTTGGCATCGGCCAC 236
QY 400 TACCAGCACCCGAAAGTTACATCCAGTACAGCCATATAGTGCCTATCGTAGTGCCTCC 459
DB 235 GACCTGAGGAGTCAAAAGTTTCAATTTGGTCTTACCCCAATCGTGCCATTTTAGTGCCCG 176
QY 460 TAGGGCATCAATGACCCACATTTGGCTCGATCGAGACGTCGGGCGGCTATCGGCT 519
DB 175 CGCGGACATCTAGCTCCATGATTTGGCCAGCATCTAGACGTCGGCCACCTCC--AGGGCT 118
QY 520 CGATCGCCGCCAAACGATGTATGGACAGTTGTTGGCGGTACTCTGATAGTGACAGCATAA 579
DB 117 TCGCGCAGCCACACGCTGTACTACATTTGGTT--TAGGATTTCAATGTGGCGCTGTT 60
QY 580 GTGAAGTCAAAAAGCCAGAGGAGGAGAAACCAAAAGAGATCTCAAG 627
DB 59 GCGGTGGAGATGAGCAAAAGTCCGGAATATATGAAAGTAGAGACCAAG 12
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RESULT 9

```
US-09-938-842A-2118/c
; Sequence 2118, Application US/09938842A
; Publication No. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; TITLE OF INVENTION: SAME, AND METHODS OF USE
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 2118
```

```
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-09-938-842A-2118

Query Match      11.7%; Score 186.8; DB 11; Length 735;
Best Local Similarity 62.4%; Pred. No. 7.5e-31;
Matches 367; Conservative 0; Mismatches 202; Indels 19; Gaps 4;

QY 46 GGTATCTTTGTTTGAAGAAATGGAAAGACGTAGGACCAATG-----GACCTTGGG 99
DB 586 GGCATCTCTGCTTAAAGAAATCTTGAGTACTCAGTATCGCTACATGATCCCTGACCGTTTCG 527
QY 100 TCAACAATATTTGTTGCTCCAAATGGTGTACAGGATTTGTTACATCTCCGGGTACTTT 159
DB 526 TACAACAGTATTTGGTTCGTTCTGAAATACAGTACACGGGTTGTTGATCCACCTGGGGTTC 467
QY 160 TAAGCTGACTAGGACATTCACCAATTTATTTTCCGCTGCATTGAAATTTGTGGCATTTCC 219
DB 466 TCAACACGTTTGGACATTTGTCGTTTATGTTCTGCGGTACATAGTATCCGATGGCAGTTTC- 408
QY 220 CTCCTACTTGGATTAGTTCGGGGCGAAAGTCACTCGGTATATTAATCCATCAACTAAAGAAA 279
DB 407 -----GAACTAGTTGGGCTAAACTCCATAGGTATGTTAAATCCATCGACAAGTGAGA 356
QY 280 TGTCCAGAAATCTAAGTTTGAATCTGGTCCAGGCGTACTCGGCTAGGTTGTTGGTG 339
DB 355 TATCGTAGAAGTCTAAGTTTGAATTTGAAATTTGTTTCAAGCGTACTCAGCCAACTGTTTGGTG 296
QY 340 GTTTCGCCACCCCGGTGCACTCCAGGACACACCAATCACCAGTCATGCACGAACCTC 399
DB 295 GCTGTCCCGCAGCAGTACATTTGGAGTCCACCACTGCACTGCACTTTGGCATCGGCCAC 236
QY 400 TACCAGCACCCGAAAGTTACATCCAGTACAGCCATATAGTGCCTATCGTAGTGCCTCC 459
DB 235 GACCTGAGGAGTCAAAAGTTTCAATTTGGTCTTACCCCAATCGTGCCATTTTAGTGCCCG 176
QY 460 TAGGGCATCAATGACCCACATTTGGCTCGATCGAGACGTCGGGCGGCTATCGGCT 519
DB 175 CGCGGACATCTAGCTCCATGATTTGGCCAGCATCTAGACGTCGGCCACCTCC--AGGGCT 118
QY 520 CGATCGCCGCCAAACGATGTATGGACAGTTGTTGGCGGTACTCTGATAGTGACAGCATAA 579
DB 117 TCGCGCAGCCACACGCTGTACTACATTTGGTT--TAGGATTTCAATGTGGCGCTGTT 60
QY 580 GTGAAGTCAAAAAGCCAGAGGAGGAGAAACCAAAAGAGATCTCAAG 627
DB 59 GCGGTGGAGATGAGCAAAAGTCCGGAATATATGAAAGTAGAGACCAAG 12
```

RESULT 10

```
US-09-770-445-334/c
; Sequence 334, Application US/09770445
; Patent No. US20020023281A1
; GENERAL INFORMATION:
; APPLICANT: Goriach, Jorn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Kricker, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
```

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; APPLICANT: Hurban, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: thaliana
; CURRENT APPLICATION NUMBER: US/09/770,445
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: US 60/178,472
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 999
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 334
; LENGTH: 950
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-770-445-334

Query Match      11.7%; Score 186.8; DB 9; Length 950;
Best Local Similarity 62.4%; Pred. No. 8.4e-31;
Matches 367; Conservative 0; Mismatches 202; Indels 19; Gaps 4;

Qy 46 GGTATCTTTGTTGAAAAAATTGAAAAAGACGTAGGACACATG-----GACCTTGGG 99
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 100 TGAACAATATTTGTTCTCCAAATGTGGTACAGGATTTGATCATCTCCGGGTACTT 159
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 534 TACAACAGTATGTGTTCTGTGAATAACAGTACACGGGTTGTTGCATCCACCTGGGGTC 475
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 160 TAAGCTGACTAGGACATTCACCATTTATTTGCGTGCATTGAATTTGTGGCATTTCC 219
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 474 TCAACAGTTTGGACATTTGTCGTTTATGTCGCGGTACATAGTATCCGATGGCAGTTC- 416
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 220 CTCCACTTGAATTAGTTCGGGGCGAAGTCTCGGTATATTAATCCATCAACTAAAGAA 279
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 415 -----GAACTAGTTGGGCTAACTCCATAGTATGTTAAATCCATCGACAAGTGA 364
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 280 TGTCCCGAATCTAAGTTGTTGAACTGGTCCAAAGCGGTACTCGGCTAGGGTGTGGTG 339
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 363 TATCGTAGAGTCTAAGTTGTTGAAATGTTGTTTCAAGCGGTACTCAGCCAAACGTGTTGGTG 304
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 340 GTTTGCCCGCCCGCTGCAGTCCAGGACACACCAATCACCATGATCATGCACCAACTC 399
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 303 GCTGTCCCGCCAGCAGTACATTTGGAGTCCACACATGTCAGTACCAGTTGGCATCGGCCAC 244
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 400 TACCAGCACCAACGAAAGTTACATCCAGTACGACCCCATATACGTGCGCATCGTAGTGCCTC 459
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 243 GACCTGAGGAGTCAAAGTTACAAATTTGTTCTTACCCCAATCCGTGCCATTTTAGTGCCG 184
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 460 TAGCGGCATCAATGACCCACATTTGGCTCGATCGAGACGTCGGGCCACCGCTATCGGGT 519
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 183 CCGCGACATCTAGCCTCCATGATTTGGCCAGCATCTAGACGTGCGCCACCTCC--AGGGCT 126
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 520 CGATGCCCGCCCAACGATATGACAGTGTGTTGGCGGTACTCTGATAGTGACAGCATAA 579
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 125 TCGCGGACGCCACACGCGTAACTACATTTGTT--TAGGATTTTCAATGTGGCGGCTGTT 68
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 580 GTGAAAGTCAAAAGCCAGAGGAGAAACCAAAAGAAAGATCTCAAG 627
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 67 GCGGTGAGATGACCAAAAGTGGCGAAATATGAAGTAGACCAAG 20
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```
RESULT 11
US-10-636-396-4/c
; Sequence 4, Application US/10636396
; Publication No. US20040073971A1
; GENERAL INFORMATION:
; APPLICANT: Bidney, Dennis L.
; APPLICANT: Crasta, Oswald R.
; APPLICANT: Duwick, Jon
; APPLICANT: Hu, Xu
; APPLICANT: Lu, Guihua
; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
; Genes and their Uses
```

```
; FILE REFERENCE: 5718-90
; CURRENT APPLICATION NUMBER: US/10/636,396
; CURRENT FILING DATE: 2003-08-07
; PRIOR APPLICATION NUMBER: US/09/589,733C
; PRIOR FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: 60/140,646
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/162,904
; PRIOR FILING DATE: 1999-11-01
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 875
; TYPE: DNA
; ORGANISM: Helianthus annuus
US-10-636-396-4

Query Match      10.6%; Score 168.8; DB 18; Length 875;
Best Local Similarity 61.3%; Pred. No. 7.5e-27;
Matches 309; Conservative 0; Mismatches 187; Indels 8; Gaps 2;

Qy 49 ATCTTTGTTGAAAAAATTGAAAAAGACGTAGGACACATGGACCTTGGGTGCAACAAT 108
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 577 ATCTGGTCTTGAATAAATCAGTTGTTGCCAATTTCCAGAGTTGCAACAAT 518
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 109 ATTGTTGCTCTCCAAATGTGGTACAAGGATTTTACATCTCTCCGGGTACTTTAAGCTGAC 168
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 517 ACTGATCAGTTTGTACACGGTGCAGGGTTATTGACCCGCCAGGAGCCGTAACTCAC 458
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 169 TAGACATTCACCATTTATTTGCGTGCATTGAATTTGTGTGGATTTCCCTCCACTTG 228
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 457 CAGGACACTGCGCATTTGATATCCGAGTACATGAGATACCCCGGTGCACCC-----AT 404
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 229 GATTAGTTCGGGGCGAAGTGCATCGGTATATTAATCCATCAACTAAAGAAATGTCACGA 288
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 403 TAGAATTTGGGTCTAAACACCATCGGCATTTGAATTCGTCACAAGAAATGTCAAAGA 344
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 289 AATCTAAGTTTGTGAACCTGGTCCAAAGCGTACTCGGCTAGGGTGTGTTGGTGGTTGCC 348
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 343 AATCAAGATTTGTGAACCTGGTCCAAAGCGTACTCGGCCAATGTGTTGGTGGGTACCAT 284
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 349 ACCCGGTGCACTGAGGACACCAACAATCACAGTCAATGACAGAACTCTACAGCAC 408
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 283 AGTTTGGCATTTGAGGAGACCGTTGCAATCACCGTCTGACACCTGCTCGCCAGAAC 224
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 409 CACGGAAGTTACATCCAGTACGACCCCATATAGTGCATCGTAGTCCCCCTAGGCGCAT 468
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 223 CATCAAAAGTTGCAATTTGGTTCCGGGGCCATATACGGGCTCTCTGTGTCGACGCGG 164
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 469 CAATGACCCACATTTGGCTCGATCGAGACGTCGGGCGACCGCCCTATCGGGTCGATGCCG 528
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 163 TTAAGACAGAGTTTGGCTGAGTTAAGTTGTGGCGCGCCACC--AGGCACCGCACCAAGC 106
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 12
US-10-636-026-4/c
; Sequence 4, Application US/10636026
; Publication No. US2004011761A1
; GENERAL INFORMATION:
; APPLICANT: Bidney, Dennis L.
; APPLICANT: Crasta, Oswald R.
; APPLICANT: Duwick, Jon
; APPLICANT: Hu, Xu
; APPLICANT: Lu, Guihua
; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
; Genes and their Uses
; FILE REFERENCE: 5718-90
; CURRENT APPLICATION NUMBER: US/10/636,026
; CURRENT FILING DATE: 2003-08-07
```

```

RESULT 13
US-10-424-599-103619/c
; Sequence 103619, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 103619
; LENGTH: 909
; TYPE: DNA

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RESULT 14
US-10-424-599-36321/c
; Sequence 36321, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 36321
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1956)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_132800C.1
US-10-424-599-36321

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Query Match 9.9%; Score 158.4; DB 18; Length 1956;
Best Local Similarity 61.0%; Pred. No. 2.1e-24;
Matches 317; Conservative 0; Mismatches 186; Indels 17; Gaps 3;

QY 45 TGGTATCTTTTGGAAAAATTCGAAAGAACCTAGGACCACA-----TGGACCTTGG 98
DB 1338 TGGCACCTTATCCITTTGAAGAACCTTGGAGTAGTTCCTGGGCCACACAGTTCCTTGGCCCATG 1279

QY 99 GTGCAACAATATCTGTTCCTCCAAATGTGTCAAGGATTTGTACATCTCTCCGGGTACT 158
DB 1278 GTGAGCAATACTCATTCGTCTTAAACACAGTGCAGGGTGTGTGCATCCCCAGGTGCC 1219

QY 159 TTAAGCTGACAGGACATTCACATTTATATTTCCCGTGCAATGAATTTGTGTGCATTTTC 218
DB 1218 CTTAATGGCCCGGGCACTGGCCATTTGATATCAGCGCTGCAACTGATTTTGTGACACCCA 1159

QY 219 CTTCCACTTGAATTTAGTCGGGGCAAGTCACTCGGTATATTAATTCATCACTAAAGAA 278
DB 1158 CCG-----TTTGAAGGGTAGAAGTCCCATCGGAATTTGAACCCGTCACCAAGAG 1108

QY 279 ATGTCCAGAAATCTAAGTTGTTCGAATCTGGTCCAAAGCGTACTCGGCTAGGGTCTTTGGT 338
DB 1107 ATGTCTGAGAAATCTCGTTGCCAAATTTGGTTCAACGGAAATCCGCAAGTGTGTGGGA 1048

QY 339 GGTTTGCCCCACCGGTGCACTGCAGGACACCAACCAATCACCAGTCAATGCACGAACCT 398
DB 1047 GGGACCCCGCAGCTTGGCAATTTGAGCGCGCCCGTGCAGTCTCCCGTTTGGCAGCGCG 988

QY 399 CTACAGACACACGAAAGTTACATCCAGTAGAGCCCATATATACGTGCATGTAGTGCCTC 458
DB 987 CGGCGGTGTCATCAAAAGTTGCACCGGTGCGGCCCATATATACGGGCGCATGGCAGTGCCT 928

QY 459 CTAGGCGCATCAATGACCCCATTTGGCTCGATCGAGAGCTCGGGCACCGCTATCGG 518
DB 927 GGGTTTACCCAGAGTTCCACGTTTGGCCAGGTCAGAGCGCGCTCCACCC--CGGAC 870

QY 519 TCAGATCGCGCCCAACAGATGTATGCACAGTTGTTGGCGGT 558
DB 869 TCGCGCGGCCACACCGTGTAGGGCAATTTGTGACGAT 830

RESULT 15
US-10-424-599-7736/c
; Sequence 7736, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 7736
; LENGTH: 1173
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)...(1173)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_106998C.1
US-10-424-599-7736

Query Match 8.6%; Score 137.2; DB 18; Length 1173;
Best Local Similarity 58.7%; Pred. No. 7.7e-20;
Matches 303; Conservative 0; Mismatches 193; Indels 20; Gaps 3;

QY 49 ATCTTTGTTTGAAGAAATTCGAAAGAACCTAGGACCACA-----TGGACCTTGGGTGC 102

DB 664 ACCTCTCTTTGAAGAACTTGGAAATAACAGTGGGACCGCAACCCGACGACCGCGGTCTAC 605
QY 103 AACAAATATTGTTGCTCCCAAAATGTGTGTAAGAATTTGTACATCTCTCCGGGTACTTAA 162
DB 604 AACAGTACTAGTGTGTAATGAAACCCGTGACCGGGTTGTTGCAGCCCGCGGAAACCTGAA 545

QY 163 GCTGACTAGGACATTCACCAATTTATATTTCGCGTGCAATTTGAATTTGTGTGGCATTTCCCTC 222
DB 544 GCTGAGTGGACACTCTCCCGATGATGTGCGGGCGCATTTTACCGAGCTGCAGTTG---- 489

QY 223 CACTTGGATTAGTCGGGGCGAAAGTCAATCGGTATATTAAATTCATCAACTAAAGAAATGT 282
DB 488 -----TAGGTCCGGCTCACCTGCAAGGGAATGTTGAAACCGTTCGACGAGGAGATGT 437

QY 283 CCAGAAATCTAAGTTGTTGAACTGGTCCAAAGGCTACTCGGCTAGGGTGTGTTGGTGGTT 342
DB 436 CGTAGAAGTGCAGGTTGTTGTACTGTTTCAACCGGAATTTCCACCAACGTGTTGCGAGGTG 377

QY 343 TGCCCCACCGGTGCACTGCAGGACACCAACAATCACCAGTCAATGCACGAACCTCTAC 402
DB 376 TACTGTTTGTGCACTCAAGAACACCGTTCGAGTCCCGGTGAGGACACTTCCCGCGTC 317

QY 403 CAGCACCAACCGAAGTTACATCCAGTACGACCCCATATATACGTGCCATCGTAGTGCCCTAG 462
DB 316 CTGCGTTGTCGAAAGTGCAGTTTGTTCGACCCCAAGATGCGTCTCTCTGTGTCGCGGTG 257

QY 463 GCGCATCAATGACCCACATTTGGCTCGATCGAGACGTCGGGACACCGCTATCGGGTGA 522
DB 256 TCACGCTGATGTTTCCAGATTCGCGAGGTTAAGCCTTGAGCCCGCCCGCGGCAACGCG- 198

QY 523 TGCGGCCCAACGATGTATGCAGAGTTGTTGGCGGT 558
DB 197 -GCGGCCACACCGGTGAGTGCAATTTGTTGTAT 163

Search completed: June 18, 2005, 02:50:37
Job time : 1005.49 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 17, 2005, 17:23:59 ; Search time 260.994 Seconds
(without alignments)
10018.495 Million cell updates/sec

Title: US-10-051-307-2

Perfect score: 1598

Sequence: 1 gtaatacagctactatagg.....tggtgaagttggtgtcttc 1598

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

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- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	468.8	29.3	3033	1	US-08-482-037A-1
C 2	419.8	26.3	883	1	US-07-828-798C-4
C 3	419.8	26.3	883	2	US-08-315-868A-4
C 4	419.8	26.3	883	3	US-08-495-819B-4
C 5	419.8	26.3	884	1	US-07-828-798C-5
C 6	419.8	26.3	884	2	US-08-315-868A-5
C 7	419.8	26.3	884	3	US-08-495-819B-5
C 8	168.8	10.6	875	4	US-08-589-733C-4
C 9	144.8	9.1	900	1	US-08-181-271A-4
C 10	144.8	9.1	900	1	US-08-449-315-4
C 11	144.8	9.1	900	1	US-08-444-803-4
C 12	144.8	9.1	900	1	US-08-449-043-4
C 13	144.8	9.1	900	1	US-08-456-265A-4
C 14	144.8	9.1	900	1	US-08-455-416-4
C 15	144.8	9.1	900	1	US-08-455-244-4
C 16	144.8	9.1	900	1	US-08-454-876-4
C 17	144.8	9.1	900	2	US-08-457-364-4
C 18	144.8	9.1	900	2	US-08-456-262-4
C 19	144.8	9.1	900	2	US-08-456-240-4
C 20	144.8	9.1	900	2	US-08-455-736-4
C 21	144.8	9.1	900	2	US-08-971-217-4
C 22	144.8	9.1	900	3	US-09-350-600-4
C 23	144.8	9.1	900	4	US-09-906-234-4
C 24	138.6	8.7	910	4	US-09-685-292-1
C 25	109	6.8	894	1	US-08-178-708-7
C 26	109	6.8	894	1	US-08-457-552-7
C 27	109	6.8	894	1	US-08-456-430-7

Query Match 29.3%; Score 468.8; DB 1; Length 3033;

ALIGNMENTS

RESULT 1

US-08-482-037A-1/c

Sequence 1, Application US/08482037A

Patent No. 5801028

GENERAL INFORMATION:

APPLICANT: Ray Bressan and Paul M. Hasegawa

TITLE OF INVENTION: Osmotin Gene Promoter and Use Thereof

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSEE: Thomas Q. Henry

STREET: Bank One Tower, Suite 3700, 111 Monument Circle

CITY: Indianapolis

STATE: Indiana

COUNTRY: USA

ZIP: 46204-5137

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage

COMPUTER: COMPAQ

OPERATING SYSTEM: MSDOS

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/482,037A

FILING DATE: June 7, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/476,243

FILING DATE: June 7, 1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/180,428

FILING DATE: January 12, 1994

APPLICATION NUMBER: 08/065,147

FILING DATE: May 20, 1993

ATTORNEY/AGENT INFORMATION:

NAME: Thomas Q. Henry

REGISTRATION NUMBER: 28,309

REFERENCE/DOCKET NUMBER: 7024-8/PUR16CIPDIVII

TELECOMMUNICATION INFORMATION:

TELEPHONE: (317) 634-3456

TELEFAX: (317) 637-7561

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 3033 bases

TYPE: Nucleotide/Amino Acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: Genomic DNA

US-08-482-037A-1


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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/315,868
; FILING DATE: 30-SEPT-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/828,798
; FILING DATE: 06-APRIL-92
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/NL91/00089
; FILING DATE: 31-05-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Mass, Clifford J.
; REGISTRATION NUMBER: 30086
; REFERENCE/DOCKET NUMBER: U-010255-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 708-1800
; TELEFAX: (212) 246-8959
; TELEX: 233288
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 883
; TYPE: Nucleotide
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Nicotiana tabacum
; US-08-495-819B-4

Query Match 26.3%; Score 419.8; DB 3; Length 883;
Best Local Similarity 84.0%; Pred. No. 2.7e-97;
Matches 498; Conservative 0; Mismatches 92; Indels 3; Gaps 2;

QY 46 GGTATCTTTGTTGAAAAAATGGAAAAAGACGTAGGACCAATGGACCTTGGGTGCAAC 105
DB 605 GGCATCTTTGTTGAAAAAATTTGAGAAAAATGTAGGACCAAGGTCTTGTGTGCAAC 546
QY 106 AATATTGTGCTCTCAATGTGGTACAAAGATTTGTTACATCTCTCGGGTACTTTAAGCT 165
DB 545 AATATTGTGCTCTCGAATGTAGTACAAAGGTTATTACATCTCTCGGGACCTTAAGTT 486
QY 166 GACTAGGACATTCACCATTTATTATTGCGTGCATTTGAATTTGTGGCAATTCCTCCAC 225
DB 485 CGCGGGACATTCGCGGTTTATTATTAGCGGTACAAATGATGCAATGCAATTCCTCCAC 426
QY 226 TTGATTAGTCGGGCGAAAGTCATCGGTATATAAATCCATCAACTAAAGAAATGTCCC 285
DB 425 TAGGTTAGTCGGGCGAAAGTCATCGGAATGTTGAATCCATCAACTAAAGAAATGTCCC 366
QY 286 AGAATCTAAGTTGTTGAAGTGTCAAGGCGTACTCGGCTAGGTTGTTGGTGTGTC 345
DB 365 AGAATCTAAGTGTGTTGAAGTGTCAAGGCGTACTCGGCTAGGTTGTTGGTGTGTC 306
QY 346 CCCACCGGTGCTAGGACGACCAACCAATCACCAGTCAATGACCAACCTCTACCAG 405
DB 305 CCCACCGGTGCTAGGACGACCAACCAATCACCAGTCAATGACCAACCTCTACCAG 246
QY 406 CACCAACCGAATTACATCCAGTACGACCCCATATACGTGCCATCGTAGTGCCTTAGCGG 465
DB 245 CAGCATTTGAATTACAAATTAGTACGCGCCCATACACGTGCCATTTAGTACCTCGTGGG 186
QY 466 CATCAATGACCCACATTTGGCTCGATCGAGAGCGTGGGCGACCGCTATCGG-GTGATG 524
DB 185 CATTCATCACCCCAAGTTTGGCTCGATCGAGAGCGGCGCACCGCTATGGGTGTCGACG 126
QY 525 CGCGCCCAACAGTGTATGACAGTTGTTGGCGGTACTCGTAGTGCAGAGCATAGTGA 584
DB 125 CGCGCCCAACAGTGTATGACAGTTGTTGGCGGTACTCGTAGTGCAGAGCATAGTGA 68
QY 585 AGTCACAAAAGCCAGAAGGGAGAAACCAAAAGAGATCTCAAGTAGGCCCATGT 637
DB 67 AGTCACCAAGGCAAGGAGGAGAAACAAAGAGATCTCAAGTTGCCCATGT 15

; US-07-828-798C-5/c
; Sequence 5, Application US/07828798C
; Patent No. 5389609
; GENERAL INFORMATION:
; APPLICANT: Woloshuk, Charles P.
; APPLICANT: Melchers, Leo S.
; APPLICANT: Cornelissen, Bernardus J. C.
; APPLICANT: Meulenhoff, Elisabeth J. S.
; APPLICANT: Sela-Buurlage, Marianne B.
; APPLICANT: Van Den Elzen, Petrus J. M.
; TITLE OF INVENTION: Antifungal Preparations, Process for
; TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with
; TITLE OF INVENTION: Decreased Susceptibility to Fungi
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ladas & Parry
; STREET: 26 West 61st Street
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10023
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
; COMPUTER: IBM PC/XT/AT or compatibles
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/828,798C
; FILING DATE: 06-APR-1992
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/NL91/00089
; FILING DATE: 31-05-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Mass, Clifford J.
; REGISTRATION NUMBER: 30086
; REFERENCE/DOCKET NUMBER: U-8622-6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 708-1800
; TELEFAX: (212) 246-8959
; TELEX: 233288
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 884
; TYPE: Nucleotide
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Nicotiana tabacum
; US-07-828-798C-5

Query Match 26.3%; Score 419.8; DB 1; Length 884;
Best Local Similarity 84.0%; Pred. No. 2.7e-97;
Matches 498; Conservative 0; Mismatches 92; Indels 3; Gaps 2;

QY 46 GGTATCTTTGTTGAAAAAATGGAAAAAGACGTAGGACCAATGGACCTTGGGTGCAAC 105
DB 605 GGCATCTTTGTTGAAAAAATTTGAGAAAAATGTAGGACCAAGGTCTTGTGTGCAAC 546
QY 106 AATATTGTGCTCTCAATGTGGTACAAAGATTTGTTACATCTCTCGGGTACTTTAAGCT 165
DB 545 AATATTGTGCTCTCGAATGTAGTACAAAGGTTATTACATCTCTCGGGACCTTAAGTT 486
QY 166 GACTAGGACATTCACCATTTATTATTGCGTGCATTTGAATTTGTGGCAATTCCTCCAC 225
DB 485 CGCGGGACATTCGCGGTTTATTATTAGCGGTACAAATGATGCAATGCAATTCCTCCAC 426
QY 226 TTGATTAGTCGGGCGAAAGTCATCGGTATATAAATCCATCAACTAAAGAAATGTCCC 285
DB 425 TAGGTTAGTCGGGCGAAAGTCATCGGAATGTTGAATCCATCAACTAAAGAAATGTCCC 366
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/
/ COUNTRY: USA
/ ZIP: 10023
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
/ COMPUTER: IBM PC/XT/AT or compatibles
/ OPERATING SYSTEM: DOS
/ SOFTWARE: Word Perfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/495,819B
/ FILING DATE: 31-APR-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/315,868
/ FILING DATE: 30-SEPT-94
/ APPLICATION NUMBER: 07/828,798
/ FILING DATE: 06-APRIL-92
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/NL91/00089
/ FILING DATE: 31-05-91
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Mass, Clifford J.
/ REGISTRATION NUMBER: 30086
/ REFERENCE/DOCKET NUMBER: U-010255-1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (212) 708-1800
/ TELEFAX: (212) 246-8959
/ TELEX: 233288
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 884
/ TYPE: Nucleotide
/ STRANDEDNESS: Double
/ TOPOLOGY: Linear
/ MOLECULE TYPE: cDNA
/ ORIGINAL SOURCE:
/ ORGANISM: Nicotiana tabacum
/
US-08-495-819B-5

Query Match 26.3%; Score 419.8; DB 3; Length 884;
Best Local Similarity 84.0%; Pred. No. 2.7e-97;
Matches 498; Conservative 0; Mismatches 92; Indels 3; Gaps 2;

QY 46 GGTATCTTTGTTGAAAAATTTGAAAAAGACGTAGGACCATGGACCTTGGGTGCAAC 105
DB 605 GGCATCTTTGTTGAAAAATTTGAAAAATGTTAGGACCAAGGTCTTGTGTGCAAC 546
QY 106 AATATTGTTGCTCCAAATGTTGTTACAGGATTGTTATCATCTCCGGGTACTTTAAGCT 165
DB 545 AATATTGTTGCTCCGAATGTTAGTACAGGTTTATTATCATCTCCGGGAACCTTAAGTT 486
QY 166 GACTAGGACATTCACCAATTTATTTGCGGTGCAATTTGAATTTGTGTGGCAATTTCCCTCCAC 225
DB 485 CGCGGGGACATTCGCGGTTTATTTATTTAGCGGTACATGATTTGCATGGCATTTCCCTCCAC 426
QY 226 TTGGATTAGTCGGGGCGAAAGTCATCGGTATATTAATTCATCACTAAAGAAATGTCCC 285
DB 425 TAGGTTAGTCGGGGCGAAAGTCATCGGAAATGTTGAATTCATCACTAAAGAAATGTCCC 366
QY 286 AGAATCTAAGTTGTTGAACCTGGTCCAAAGGCTACTCGGCTAGGTTGTTGGTGGTTTC 345
DB 365 AGAATCTAAGTTGTTGAACCTGGTCCAAAGGCTACTCGGCTAGGTTGTTGGTGGTTTC 306
QY 346 CCCACCGGTGCACTGCAGGACACCAACATCACTACAGTCATGCACGAACCTCTTACCAG 405
DB 305 CCCACCGGTGCACTGCAGGACCTCCACACAGTCACCGGTTTGGCACGTACCCCTACCAG 246
QY 406 CACGACCGAAGTTACATCAGTACGACCCCATATACGTGCGCATGTAGTCCCTTAGCGG 465
DB 245 CAGCATTTGAAGTTTACAATTTAGTACGCGCCCATACACGTCGCAATTTAGTACCTCTGTCGGC 186
QY 466 CATCAATGACCCACATTTGGCTCGATCGAGACGTCCGGGCAACCGCTATCGG-GTTCATG 524

185 CATTGATCAACCAAGTTTGGCTCGATCGAGAGCGCGGCCCTATGGTGTGCGACG 126
525 CGGCCAAACGATGATGACAGAGTTTGGCGGTACCTCGATAGTACAGCATAGTGA 584
125 CGGCCAAACGATGATGACAGAGTTTGGT--TCGGACCTCGATAGTGGCAGCATAGTATA 68
585 AGTCACAAAGCCGAGAGGAGAAACCAAAAGAGATCTCAAGTAGCCCATGT 637
67 AGTCACAAAGCCGAGAGGAGAAACCAAAAGAGATCTCAAGTTGCCCATGT 15

RESULT 8
US-09-589-733C-4/c
; Sequence 4, Application US/09589733C
; Patent No. 6677503
; GENERAL INFORMATION:
; APPLICANT: Bidney, Dennis L.
; APPLICANT: Crasta, Oswald R.
; APPLICANT: Duwick, Jon
; APPLICANT: Hu, Xu
; APPLICANT: Lu, Guihua
; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
; FILE OF INVENTION: Genes and their Uses
; FILE REFERENCE: 5718-90
; CURRENT APPLICATION NUMBER: US/09/589,733C
; CURRENT FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: 60/140,646
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/162,904
; PRIOR FILING DATE: 1999-11-01
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 875
; TYPE: DNA
; ORGANISM: Helianthus annuus
;
US-09-589-733C-4

Query Match 10.6%; Score 168.8; DB 4; Length 875;
Best Local Similarity 61.3%; Pred. No. 3.5e-33;
Matches 309; Conservative 0; Mismatches 187; Indels 8; Gaps 2;

QY 49 ATCTTTGTTTCAAAAATTTGAAAAGACGTAGGACCATGGACCTTGGGTGCAACAT 108
DB 577 ATCTTGCTTTGAAAACCTTGATAATCAGTTGGTCCAAATTTCCAGAGTTGCAACAT 518
QY 109 ATTGTTGCTCCAAATGTTGTACAAAGATTGTTACATCTCCGGGTACTTTAAGCTGAC 168
DB 517 ACTGATCAGTTTGTACACGTTGCAAGGTTATTGACCCCGCAGGACCCGTAACCTAC 458
QY 169 TAGGACATTCACCAATTTATTTGCGGTGCAATTTGAATTTGTGTGGCAATTTCCCTCCACTTG 228
DB 457 CAGGACACTGCGCAATTTGATATCCGAGTACATGATACCCCGGTGCAACCC-----AT 404
QY 229 GATTAGTCGGGGCGAAAGTCATCGGTATTTAAATTCATCACTAAAGAAATGTCCGAGA 288
DB 403 TAGAATTTGGGTCTAAACACCATCGGCATTTGAATTCGTCACAGAGAAATGTCAAGA 344
QY 289 AATCTAAGTTGTTGAACCTGGTCCAAAGGCTACTCGGCTAGGTTGTTGGTGGTTTGCCTCC 348
DB 343 AATCAAGTTGTTGAACCTGGTCCAAAGGCTACTCGGCAATGTTGTTGGTGGGTACCAT 284
QY 349 ACCCGGTGCACTGCAGGACACCAACATCACCAGTCATGCAGCAACCTCTTACGAGCAC 408
DB 283 AGTTTGGCAATTTGAGGAGACCGTTGCAATCACCAGTCTGACACCTGCTCGCCGAGAAC 224
QY 409 CACCGAATTCATCCAGTACGACCCCATATACGTGCAATCGTAGTCCCTTAGCGGAT 468
DB 223 CATCAAAATTTGCAATTTGGTTCCGGGCCATATACGGGCTCTCTGCTGCGCAGCTGCGACGG 164
QY 469 CAATGACCCACATTTGGCTCGATCGAGACGTCCGGGCAACCGCTATCGGTCGATGCGCG 528
DB 163 TTAAGACCAAGTTTGGCTCGATGTTAGTTTGTGCGCGGCCACC--AGGCAAGGACCAAGC 106
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QY 529 CCAACGATGATGACAGTGTGT 552
Db 105 CCAACGCGTATGACAGTGTGT 82

RESULT 9

US-08-181-271A-4/c
Sequence 4, Application US/08181271A
Patent No. 5614395

GENERAL INFORMATION:

APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/181,271A
FILING DATE: 13-JAN-94
CLASSIFICATION: 435
PRIORITY DATA:
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIORITY DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIORITY DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIORITY DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIORITY DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIORITY DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIORITY DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIORITY DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIORITY DATA:
APPLICATION NUMBER: US 07/848,506

FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8614
TELEFAX: (919) 541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
US-08-181-271A-4

Query Match 9.1%; Score 144.8; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 4.8e-27;
Matches 335; Conservative 0; Mismatches 197; Indels 22; Gaps 5;
QY 46 GGTATCTTTGTTGAAAAAATGGAAAAAGACGTAGGACCAAT-----GGACCTTGGG 99
Db 607 GGCATCTTTCTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
QY 100 TGCNACAATATTGTTGCTCCCAATGTGTACAGGATGTTTACATCCTCGGGTACTT 159
Db 547 TACAACAATATTTCATTTGTTTATCACAGTACATGGGTGTTTACATCCACCTGTGTGTT 488
QY 160 TAAGTCACTAGGACATTCACCATTTATATTGCGTGCAATTGAATTTGTGGCATTTCC 219
Db 487 TCACTGTGTGGCATTGTTGTTAATAGTGTCTGTGCATCTGAGATTACGACAT----- 432
QY 220 CTCCACTTGGATTAGTCGGGGCGAAAGTCATCGGTATATTAAATCCATCAACTAAAGAAA 279
Db 431 -----CTCCATTGGTGGGCTGAATTCATGGGGATGTTAAATCCATCAACAAGAGAGA 377
QY 280 TGTCCAGAAATCTAAGTTGTTGAACTGGTCCAGGGCGTACTCGGCTAGGCTGTTGGTG 339
Db 376 TGTGACAAAATC---CTGATTGGGTTGATTAAAGTGCAAAATTCAGCTAAAGTGTAGGTG 320
QY 340 GTTTGCCCCACCCGGTGCACCTGCAGGACACACCACCAATACACAGTCATGACGAACTC 399
Db 319 CTTTTCATAGCCTTGACATCTTAACATCCCGTTACAGTCTCCAGTCTCAACATTAACCTC 260
QY 400 TACCAGCACCCAGGAAGTTATCATCCAGTACGACCCCATATACGTGCCATCGTAGTCCCC 459
Db 259 GGCCACTGCCATCGAAGTTGCAATTTGGTTGACCCCAATTCGAGCCCTGGAGCTGTTCTCG 200
QY 460 TAGCGGCATCAATGACCCACATTTGGCTCGATCGAGACGTGCGGACCCGCTATCGGGT 519
Db 199 GGTTCACATTAATGCTCCAAGATTGGCTCGAGTCCAGCCGCTCCTCCACC--TGGAGA 142
QY 520 CGATGCCGCCCAACAGATGATGACAGTGTGTTGGCGGTACTCTCGATGATGACAGCATAA 579
Db 141 GGCCGCGGCCCAAGACTGTGTAGGTGCAATTTGTTGAC--AATGTCAAAAGTGGCAGCATGA 84
QY 580 GTGAAAGTCACAAA 593

Db 83 GTACAGCTACAAA 70
RESULT 11
US-08-444-803-4/c
; Sequence 4, Application US/08444803
; Patent No. 5654414
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Moyer, Mary B.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Payne, George B.
; APPLICANT: Sperison, Christoph
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Uknes, Scott J.
; APPLICANT: Ward, Eric R.
; APPLICANT: Williams, Shericca C.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,803
; FILING DATE: 19-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/181,271
; FILING DATE: 13-JAN-94
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/678,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
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; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
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; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Elmer, James Scott
; REGISTRATION NUMBER: 36,129
; REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8614
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
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; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; US-08-444-803-4
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Qy 46 GGTATCTTTTGTGAAAAAATTGAAAAAGACGTAGGACCCACAT-----GGACCTTGGG 99
Db 607 GGCATCTTTCTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
Qy 100 TGCACAAATATTGTTGCTCCCAATGTGTAGAGATTTTATCATCTCTCGGGTACTT 159
Db 547 TACAACAAATATTTCATTGGTTTTTATCACAGTACATGGGTGTTTATCATCCACCTTGTGTT 488
Qy 160 TAAGTCAGTAGGACATTCACCATTTATTTATTTGCGGTGCATTTGAATTTGTGGCATTTCC 219
Db 487 TCAACTGTCTGGCAATTTGTTTAAATAGGTGCTGTGCACTCGAGATTACGACAT----- 432
Qy 220 CTCACATTGGATTAGTCGGGGCGAAAGTCATCGGTATATTAAATCCATCACTAAAGAAA 279
Db 431 -----CCTCCATTGGTCGGGCTGAATTCATGGGGATGTTAAATCCATCAACAAGAGAGA 377
Qy 280 TGTCACGAAATCTAAGTTGTTGAACTGGTTCAGAGGGGTACTCGGCTAGGTGTTGGTG 339
Db 376 TGTGACAAAATGTC---CTGATTGGGTTGATTAGTGCAAAATTCAGCTAAAGTGTAGGTG 320
Qy 340 GTTTGCCCCCAGGTCAGTCAGGAGACACACACAAATCACCAGTATGACCAACCTC 399
Db 319 CTTTTCCATAGCTTTGACATCTTAACATCCCGTTTACAGTCTCCAGTCTCACAATTACCTC 260
Qy 400 TACCAGCACCCAGCAAGTTTACATCCAGTACGACCCCATATACATGCGCCATCGTAGTGCCTC 459
Db 259 GGCCACTGCCATCGAAGTTGCAATTTGTTGACCCCAATTCGAGACCTGGAGCTTCTCTG 200
Qy 460 TAGCGCATCAATGACCCACATTTGGCTCGATCGAGACGTCGGGACCGGCTATCGGGT 519
Db 199 GGTTACATTAATGCTCCAAGATTGGCTGAGTCGAGCCGCTCGCTCCACC--TGGAGA 142
Qy 520 CGATGCCGCCCAACGATGTATGACAGATTTGTTGGCGGTACTCGATGATGACAGCATAA 579
Db 141 GGCGCGGCCCGACAGACTGTGTAGGTGCAATTTGTTGAC--AATGTCAAAAGTGGCAGCATGA 84
Qy 580 GTGAAAGTCACAAA 593

83 GTAACAGCTACAAA 70

Db

RESULT 12

US-08-449-043-4/c
Sequence 4, Application US/08449043

Patent No. 5689044

GENERAL INFORMATION:

APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC

TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF

NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: New York

COUNTRY: USA

ZIP: 10532

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/449,043

FILING DATE: 24-MAY-1995

CLASSIFICATION: 800

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/181,271

FILING DATE: 13-JAN-94

APPLICATION NUMBER: US 08/093,301

FILING DATE: 16-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/937,197

FILING DATE: 6-NOV-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/678,378

FILING DATE: 1-APR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/305,566

FILING DATE: 6-FEB-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/165,667

FILING DATE: 8-MAR-1988

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847

FILING DATE: 6-APR-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/632,441

FILING DATE: 21-DEC-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504

FILING DATE: 20-OCT-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/848,506

FILING DATE: 6-MAR-1992
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APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-449-043-4

Query Match 9.1%; Score 144.8; DB 1; Length 900;

Best Local Similarity 60.5%; Pred. No. 4.8e-27;

Matches 335; Conservative 0; Mismatches 197; Indels 22; Gaps 5;

QY	46	GGTATCTTTTGGAAAAAATTTGAAAAAGACGTAGGACACAT-----GGACCTTGGG	99
Db	607	GGCATCTTTTCTTTAAAAAATCTCGACAATCAGTAGGCCACATGATCCAGGCCCATTTG	548
QY	100	TGCAACAATATTTGTCTCCTCCAAATGTGTACAGGATTTGTTACATCCTCGGGTACTT	159
Db	547	TACAACAATATTTGTTGGTTTTTATCAGATACATGGGTGTTTACATCCACCTTGTGTT	488
QY	160	TAAGCTGACTAGGACATTCACATTTATTTGCGTGCATTTGATTTGTGGGATTTCC	219
Db	487	TCAACTGTGCTGGGCATTTGTTTAAATAGGTGCTGTGCATCTGAGATTACGACAT----	432
QY	220	CTCCACTTGGATTAGTCGGGGCGAAAGTCATCGGTATATTAATCCATCAACTAAAGAAA	279
Db	431	-----CCTCCATTTGTCGGGCTGAATTCATGGGGATTTAAATCCATCAACAGAGAGA	377
QY	280	TGTCACGAAATCTAAAGTTGTTGAACCTGGTCCAAGCGTACTTCGGCTAGGGTGTGTTG	339
Db	376	TGTCGACAAAGTC---CTGATTTGGTTGATTAAGTGCAAAATTCAGTAAAGTTAGGTG	320
QY	340	GTTTGGCCCCACCGGTGCATCTGAGGACACACACAATATCAGCATGATGACAGAACCTC	399
Db	319	CTTTTCCATAGCCTTGACACTTAACATCCGGTTTACAGTCTCCAGTCTCAACAATTACCTC	260
QY	400	TACCAGACACACCGAAGTTACATCCAGTACGACCCCATATAGTCCCATCGTAGTGCCCC	459
Db	259	GGCCACTGCCATCGAAGTTGCAATTTGGTTTGACCCCAATGGAGCCCTGGACTGTTCCTG	200
QY	460	TAGCGCATCAATGACCCACATTTTGGCCTCGATCGAGACGTTCGGGCACCGCCTATCGGT	519
Db	199	GGTTTCAATTAATGCTCCAGATTGGCTGAGTCAGCGCGCTGCTCCACC--TGGAGA	142
QY	520	CGATGCCGCCCAACGATGTATGAGCAGTTGTTGGCGGTACTCTGATAGTGACACATAA	579
Db	141	GGCGCGGCCCCAGACTGTGTAGTGCATTTGTTGAC--AATGTCAAAAGTGGCAGCATGA	84
QY	580	GTGAAAGTCACAAA	593

APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,416
FILING DATE: 31-MAY-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018

FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-455-416-4

Query Match 9.1%; Score 144.8; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 4.8e-27;
Matches 335; Conservative 0; Mismatches 197; Indels 22; Gaps 5;

Qy 46 GGTATCTTTGTTGAAAAAATTGAAAAAGACGTAGGACCAT-----GGACCTTGGG 99
Db 607 GGCATCTTTCTTTAAAAAATCTCGAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
Qy 100 TGCACAAATATTTGTTCTCTCAAAATGTGTACAGGATTTGTATCATCTCTCGGGTACTT 159
Db 547 TACAACAATATTCATTTGTTTTTATCACAGTACATGGGTGTGTACATCCACTTGTGTT 488
Qy 160 TAAGCTGACTAGGACATTCACCATTTATTTGGTGTGTCATGATTTGTGGCATTTCC 219
Db 487 TCAACTGTGTGGGCATTTGTTTCTTAATAGTGTGTGTGTCATCTGAGATTACGACAT 432
Qy 220 CTCCACTTTGGATTAGTCGGGCGAAAGTCATCGGTATATTAAATCCATCACTAAAGAAA 279
Db 431 -----CCTCCATTTGTCGGGCTGAATTCATGGGATGTTAAATCCATCAACAGAGAGA 377
Qy 280 TGTCCAGAAAATCTAAGTTGTTGAATCTGGTCCAAAGCGGTACTCGGCTAGGGTGTGTTG 339
Db 376 TGTGACAAAGTC---CTGATTGGTGTGATTAAAGTGCAAAATTCAGTAAAGTTAGGTG 320
Qy 340 GTTTGCCCCACCGGTGCACTGAGGACACACACAAATCACCACTGATGACAGAACCTC 399
Db 319 CTTTTCATAGCCTTGACACTTAACATCCCGTTTACAGTCTCCAGTCTCACAATTTACCTC 260
Qy 400 TACCAGCACACCGAAGTTACATCCAGTACGACCCCATATACGTGCCATCGTAGTGCCTC 459
Db 259 GGCACTGCCATCGAAGTTGCAATTTGTTCCAGCCCAATCGGAGCCTGGAGCTGTCTGT 200
Qy 460 TAGCGCATCAATGACCCACATTTGGCCTCGATCGAGACGTGCGGACCGCCTATCGGGT 519
Db 199 GGTTCACATTAATGCTCCAGATTGGCTGAGTCGAGCGCGCTGCCTCCACC--TGGAGA 142
Qy 520 CGATGCCGCCCAACGATGTATGACAGTGTGTTGGCGGTACTCTGATAGTAGACACATAA 579
Db 141 GCGCGCGGCCAGACTGTGTAGTGCAATTTGTTGAC--AATGTCAAAAGTGCAGCATGA 84
Qy 580 GTGAAAGTCACAAA 593
Db 83 GTACAGCTACAAA 70

RESULT 15
US-08-455-244-4/c
; Sequence 4, Application US/08455244
; Patent No. 5789214
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.

APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
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APPLICANT: Neuhaus, Jean-Marc
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APPLICANT: Sperison, Christopher
APPLICANT: Stinson, Jeffrey R.
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TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
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ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,244
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
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APPLICATION NUMBER: US 07/937,197
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PRIOR APPLICATION DATA:
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FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
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TELEFAX: (919)541-8689
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US-08-455-244-4
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Db 607 GGCATCTTTCTTAAAAAATCTGCACAAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
Qy 100 TGCACCAATATTGTTGCTCCCAATGTGTGACAGGATGTTTACATCCTCGGGTACTT 159
Db 547 TACAACAATATTCAATGTTTATCACAGTACATGGGTTGTTTACATCCACCTTGTGTT 488
Qy 160 TAAGTCAGCTAGGACATTCACCATTTATTTGCGGTGCATTTGAATTTGTGGCATTTCC 219
Db 487 TCACTGTCTGGGCATTTGTTGTTAATAGTGTGTCATCTGAGATTACGACAT----- 432
Qy 220 CTCACATTGGATTAGTCGGGGCGAAAGTCATFCGGTATATTAAATCCATCAATAAGAAA 279
Db 431 -----CCTCCATTGGTCGGGCTGAATTCATTCAGGATGTTAAATCCATCAACAAGAGA 377
Qy 280 TGTCCCAAGAAATCTAAGTTCTTGAAGTGGTCCAGGCGTACTCGGTAGGTTGGTG 339
Db 376 TGTGCACAAAGTC---CTGATTGGGTTGATTAAGTGCATAATTCAGCTAAAGTGTAGGTG 320
Qy 340 GTTTGCCCCCAGCGGTGCACCTGCAGGACACACACCAATCACCAGTCATGCACGAACCTC 399
Db 319 CTTTTCATAGCCTTGACACTCTAACATCCCGTTACAGTCTCCAGTCTCACAAATACCTC 260
Qy 400 TACCAGCACCCGAAAGTTATATCCAGTACGACCCCATATACGTGCCATCGTAGTCCCC 459
Db 259 GGCCACTGCCATCGAAGTTGCAATTGGTTTCGACCCCAATGCGAGCCTGGACTGTTCTG 200
Qy 460 TAGCGCATCAATGACCCACATTTGGCTCGATCGACAGCTCGGGCACCGCTATCGGT 519
Db 199 GGTTCAATTAATGCTCCAAAGATTGGCTGAGTCAGCCGCTCCCTCCACC--TGGAGA 142
Qy 520 CGATGCGGCCCAACGATGATGACAGTTGTTGGCGGTACCTCGATAGTGACAGCATAA 579
Db 141 GGCGCGGCCCCAGACTGTGTAGTGCATTTGTTGAC--AATGTCAAAAAGTGGCAGCATGA 84
Qy 580 GTGAAAGTCACAA 593
Db 83 GTAACAGCTACAA 70

Search completed: June 17, 2005, 19:51:55
Job time : 263.994 secs

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Result No.	Query #			DB	ID	Description
	Score	Match	Length			
1	1595	100.0	1595	13	US-10-051-307-1	Sequence 1, Appli
2	1595	100.0	1595	21	US-10-903-948-1	Sequence 1, Appli
3	1482.2	92.9	1598	13	US-10-051-307-2	Sequence 2, Appli
4	1482.2	92.9	1598	21	US-10-903-948-2	Sequence 2, Appli
5	1362.4	85.4	1546	13	US-10-051-307-3	Sequence 3, Appli
6	1362.4	85.4	1546	21	US-10-903-948-3	Sequence 3, Appli
C 7	293.4	18.4	510	17	US-10-341-961A-371	Sequence 371, App


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QY 361 GCAGGACACCCACCAATCACCAGTCATGCGACGAACCTCTACCAGCACCATCGAAGTTAC 420
Db 361 GCAGGACACCCACCAATCACCAGTCATGCGACGAACCTCTACCAGCACCATCGAAGTTAC 420
QY 421 ATCCAGTAGCAGCCCATATACCTGCCATCGTAGTCCCTCTAGGCGCATCAATGACCCACA 480
Db 421 ATCCAGTAGCAGCCCATATACCTGCCATCGTAGTCCCTCTAGGCGCATCAATGACCCACA 480
QY 481 TTTGGCCCGCATCGAAAAGTGGGACCCGCTTTGGGGTTCGATGCGGCCCAACGATGTA 540
Db 481 TTTGGCCCTCGATCGAGAGCTGGGACCCGCTTATCGGGTCGATGCGGCCCAACGATGTA 540
QY 541 TGGACAGTTGTG--CGTACCTCGATAGTGCAGCATAGTGAAGTCACAAAAGCAAGA 598
Db 541 TGGACAGTTGTGCGGGTACCTCGATAGTGCAGCATAGTGAAGTCACAAAAGCCAGA 600
QY 599 AGGGAGAAAAACAAAAGAGATCTCAAGTAGCCCATGTTTGTGTGAATTTATATGTGACA 658
Db 601 AGGGAGAAAAACAAAAGAGATCTCAAGTAGCCCATGTTTGTGTGAATTTATATGTGACA 660
QY 659 AATATTTTGTGACTTTATATATAGGATATGGCGCTTTTGGCACTACGGATATTAAT 718
Db 661 AATATTTTGTGACTTTATATATAGGATATGGCGCTTTTGGCACTACGGATATTAAT 720
QY 719 CGTATTATATAGCAATATCATCTTTGACTAATATAACGAAATATATTACAATATGAT 778
Db 721 CGTATTATATACAAATATCATCTTTGACTAATATAACGAAATATATTACAATATGAT 780
QY 779 TTGTGTAACGTTGAGGTGAAAAATGTATAGAGCGCGCTAATAATTAATTTATGA 838
Db 781 TTGTGTAACGTTGAGGTGAAAAATGTATAGAGCGCGCTAATAATTAATTTATGA 840
QY 839 ATATAGCCTATAGTACAGTTAACTTTATTTGGTGATAA CTTTGACATATAAATCTGT 898
Db 841 ATATAGCCTATAGTACAGTTAACTTTATTTGGTGATAA CTTTGACATATAAATCTGT 900
QY 899 AACGTGACGGATTTTCTTAAACCTAAATATTAAGAGCAGCTATTTTCAGATTTTCG 958
Db 901 AACGTGACGGATTTTCTTAAACCTAAATATTAAGAGCAGCTATTTTCACATTTTCG 960
QY 959 TGGCCAAAGTTTCTTGCACTATCTATGCCATTTTATCTTTTATCGTCTAGCCCTC 1018
Db 961 TGGCCAAAGTCTCTTGCACTATCTATGCCATTTTATCTTTTATCGTCTAGCCCTC 1020
QY 1019 TAGGTACAGTTTGAACATAAAAAATCATAAAAATGAAAGTAAATAATAGTTTTTTTT 1078
Db 1021 TAGGTACAGTTTGAACATAAAAAATCATAAAAATGAAAGTAAATAATAGTTTTTTTT 1080
QY 1079 TTCATATTACTCGTAGGGATCAATTTGTTAGATCAATCTGAATATACAAACCATCTGAT 1138
Db 1081 TTCATATTACTCGTAGGGATCAATTTGTTAGATCAATCTGAATATACAAACCATCTGAT 1140
QY 1139 TTTAAAAATCACAAACCATCTGCC--AAGGGGAAGCTATGTGATCCGTGACAAAGTGGTTT 1196
Db 1141 TTTAAAAATCACAAACCATCTGCCCTAATGGGGAAGCTATGTGATTCGTGGCAAGT-GTTT 1199
QY 1197 GATTAATCTTAGCTAGATTGAGTCAACATTTTATGTCAAAATATCTATTAAGAAAC 1256
Db 1200 GATTAATCTTAGCTAGATTGAGTCAACATTTTATGTCAAAATATCTATTAAGAAAC 1259
QY 1257 CCTATTGTGCAAAATATCTATTAAAGAACCCCTATTCATGCTTTTATTTTACCAT 1316
Db 1260 CCTATTGTGCAAAATATCTATTAAAGAACCCCTATTCATGCTTTTATTTTACCAT 1319
QY 1317 CGGAGCATGGATATATTTACTAATTTAAATAAATTTGAAGGAATTTGATCGCAAGTCAATC 1376
Db 1320 CGGAGCATGGATATATTTACTAATTTAAATAAATTTGGGAGGAATTTGATCGCAAGTCAATC 1379
QY 1377 AAGCTTATCGTCGATCCACATTAATAAATACGTTAGTATGGCTGCTTTTAGAGAAACAAGT 1436
Db 1380 AAGCTTATCGTCGATCCACATTTAGGATACGTTAGTATGGCTGCTTTTAGAGAAACAAGT 1439
QY 1437 GGATCATGTATAATTTAGTTTTTAAAAATATCTCTTATAAATAATCTATATATACCTCTAAAA 1496
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Db 1440 GGATCATGTACAATTTAGTTTAAAAAATATCTCTTAATAATACCTGTCTATCCCTCTTAAA 1499
QY 1497 CTAATGTCATCTAACACACAAATATAAACTTAGATTCTTTAAAGAAATTCAGAAATTA 1556
Db 1500 CCAAATACATCTAACACACAAATATAAACTTAGATTCTTTAAAGAAATTCAGAAATTA 1559
QY 1557 ATGGAGCAAAATAAGTCTATGTCGAAGTTGTTGCTTTC 1595
Db 1560 ATGGAGCAAAATAAGTCTATGTCGAAGTTGTTGCTTTC 1598
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RESULT 4

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US-10-903-948-2
; Sequence 2, Application US/10903948
; Publication No. US2005000524A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/903,948
; CURRENT FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US/10/051,307
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1598
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-903-948-2
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Query Match 92.9%; Score 1482.2; DB 21; Length 1598;
Best Local Similarity 96.7%; Pred. No. 2,1e-311;
Matches 1546; Conservative 0; Mismatches 48; Indels 5; Gaps 3;
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QY 1 GTAATACGACTCACTATAGGCGACGCTGGTTCGACGGCCCTGGCTGGTATCTTTTGA 60
Db 1 GTAATACGACTCACTATAGGCGACGCTGGTTCGACGGCCCTGGTATCTTTTGA 60
QY 61 AAAAATTTGAAAAAGAACGTAGACCAACATGACCTTGGGTGCAACAATATTTGTTCTC 120
Db 61 AAAAATTTGAAAAAGAACGTAGACCAACATGACCTTGGGTGCAACAATATTTGTTCTC 120
QY 121 CAAATGTGTTACAAAGGATTTTACATCTCCGGGTACTTTAAGTTGACAGGGCATTCAC 180
Db 121 CAAATGTGTTACAAAGGATTTTACATCTCCGGGTACTTTAAGTTGACAGGATTCAC 180
QY 181 CATTATATTTGCCGTGCAATTAATTTGTTGGCAATTTCCCTCCACTTGGATTAGTCGGG 240
Db 181 CATTATATTTGCCGTGCAATTAATTTGTTGGCAATTTCCCTCCACTTGGATTAGTCGGG 240
QY 241 CGAAAGTCATCGGTATATTAATCCATCAACTAAGAAATGTCACAGAAATCTAAGTTGT 300
Db 241 CGAAAGTCATCGGTATATTAATCCATCAACTAAGAAATGTCACAGAAATCTAAGTTGT 300
QY 301 TGAACCTGTCGAAAGGCTACTCGGCTAGGGTGTGTTGGTGGTTCGCCACCCGGTGCACT 360
Db 301 TGAACCTGTCGAAAGGCTACTCGGCTAGGGTGTGTTGGTGGTTCGCCACCCGGTGCACT 360
QY 361 GCAGGACACCCACCAATCACCAGTCATGACGAAACCTCTACCAACAATCGAAGTTAC 420
Db 361 GCAGGACACCCACCAATCACCAGTCATGACGAAACCTCTACCAACAATCGAAGTTAC 420
QY 421 ATCCAGTAGCAGCCCATATATCTGTCATCTAGTCCCTTAGCCGATCAATGACCCACA 480
Db 421 ATCCAGTAGCAGCCCATATATCTGTCATCTAGTCCCTTAGCCGATCAATGACCCACA 480
QY 481 TTTGGCCCGCATCGAAAAGTGGGACCCGCTTTTCGGGTCGATGCGGCCCAACGATGTA 540
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Db 481 TTTGGCCCTCGATCGAGAGCTGGGACCGGCTATCGGGTCGATCCGCCCAAAACGATGTA 540
Qy 541 TGGACAGTTGTTG--CGTACCTCGATAGTGCAGCATAAGTGAAGTCAAAAAAGCAAGA 598
Db 541 TGGACAGTTGTTGGGTTACCTCGATAGTGCAGCATAAGTGAAGTCAAAAAAGCCAGA 600
Qy 599 AGGAGAAAAACAAAGAGATCTCAAGTAGCCCCATGTTGTTGAAATTTATATATGTGACA 658
Db 601 AGGAGAAAAACAAAGAGATCTCAAGTAGCCCCATGTTGTTGAAATTTATATGTGACA 660
Qy 659 AATTATTTTGGTACTTTATATATAGGATATGGGCTTTTGGCACTACGGATTAAT 718
Db 661 AATTATTTTGGTACTTTATATATAGGATATGGGCTTTTGGCACTACGGATTAAT 720
Qy 719 CGTATTATAGCAATATCATCTTGACTAATTAATAACGAAATATATTACAATATGAT 778
Db 721 CGTATTATAGCAATATCATCTTGACTAATTAATAACGAAATATATTACAATATGAT 780
Qy 779 TTGTAACCGTTGAGGTGGAAAAATGTATAAGCCGCTAATAATTAATTTTATGA 838
Db 781 TTGTAACCGTTGAGGTGGAAAAATGTATAAGCCGCTAATAATTTTATGA 840
Qy 839 ATATAGCTATAGTTACAGTTAACTTTATTTGGTGATACTTTGACATATAAACTCTGT 898
Db 841 ATATAGCTATAGTTACAGTTAACTTTATTTGGTGATACTTTGACATATAAACTCTGT 900
Qy 899 AACGTGACGGAAATTTCTTAAACTAAATATTAAGAGCAGCTATTTTCAGATTTTTCG 958
Db 901 AACGTGACGGAAATTTCTTAAACTAAATATTAAGAGCAGCTATTTTCACATTTTTCG 960
Qy 959 TGGCCAAAGTTTCTTGACATCTTATCTATGCCCCATTTTACTTTTATCGTTCTAGCCCTC 1018
Db 961 TGGCCAAAGTCTCTTGACATCTTATCTATGCCCCATTTTACTTTTATCGTTCTAGCCCTC 1020
Qy 1019 TAGGTACAGTTTGAAACATAAAAAATCATAAAAATTTGAAAGTAAAAATTAGTTTCTTTT 1078
Db 1021 TAGGTACAGTTTGAAACATAAAAAATCATAAAAATTTGAAAGTAAAAATTAGTTTCTTTT 1080
Qy 1079 TTCAATATTCTCGTAGGGATCAATTTGTAGTATCAATCTGAATATACAAACCATCTCGAT 1138
Db 1081 TTCAATATTCTCGTAGGGATCAATTTGTAGTATCAATCTGAATATACAAACCATCTCGAT 1140
Qy 1139 TTTAAATCAAAACCATCTGCC--AAGGGGAAGTCTATGTGATCGGTGACAAAGTGTTT 1196
Db 1141 TTTAAATCAAAACCATCTGCC--AAGGGGAAGTCTATGTGATCGGTGCAAGT-GTTT 1199
Qy 1197 GATTATTTCTTAGTCTAGATTGGAGTCAAACTTTTAGTGAATATCTATTAAAGAAC 1256
Db 1200 GATTATTTCTTAGTCTAGATTGGAGTCAAACTTTTAGTGAATATCTATTAAAGAAC 1259
Qy 1257 CCTATTGATGCAATATCTATTAAAGAACCCCTATTCTATGCTTTATTTTTCGAT 1316
Db 1260 CCTATTGATGCAATATCTATTAAAGAACCCCTATTCTATGCTTTATTTTTCGAT 1319
Qy 1317 CGGAGCATGGATATATTTACTAAATTTAAATTTGGAAGAAATTTGATCGCAAGTCAATC 1376
Db 1320 CGGAGCATGGATATATTTACTAAATTTAAATTTGGAAGAAATTTGATCGCAAGCCTATC 1379
Qy 1377 AAGCTTATCGTCGATCCACATTTAAATTTAAATTTAGTATGGCTGCTTTTAGAGAAACAA 1436
Db 1380 AAGCTTATCGTCGATCCACATTTAGGATAACCGTTAGTATGGCTGCTTTTAGAGAAACAA 1439
Qy 1437 GGATCATGTAATTTTAGTTTAAATATCTCTTATATAATCTATATAATCTATACCTCTAAA 1496
Db 1440 GGATCATGTAATTTTAGTTTAAATATCTCTTATATAATCTATATAATCTATACCTCTAAA 1499
Qy 1497 CTAAATGCATCTAACACACAAATATATAAATTTAGATTTTAAAGAAATTCGCAATTA 1556
Db 1500 CCAAATCATCTAACACACAAATATATAAATTTAGATTTTAAAGAAATTCGCAATTA 1559
Qy 1557 ATGAGGCAATAAGTCTATGGTGAAGTTGGTTGCTTTC 1595

Db 1560 ATGGAGCAAAATAAGTCTATGGTGAAGTTGGTGTCTTTC 1598
RESULT 5
US-10-051-307-3
; Sequence 3, Application US/10051307
; Publication No. US20020170095A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
; FILE REFERENCE: 059440/0141
; CURRENT APPLICATION NUMBER: US/10/051.307
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/263,224
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1546
; TYPE: DNA
; ORGANISM: Solanum tuberosum
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1248)
; OTHER INFORMATION: a, t, c or g
US-10-051-307-3

Query Match 85.4%; Score 1362.4; DB 13; Length 1546;
Best Local Similarity 94.1%; Pred. No. 2.1e-285;
Matches 1460; Conservative 0; Mismatches 82; Indels 9; Gaps 4;

Qy 49 ATCTTTGTTTGAAGAAATTCGAAAGAACCTAGACACATGACCTTGGGTGCAACAAT 108
Db 1 ATCTTTGTTTGAAGAAATTCGAAAGAACCTAGACACATGACCTTGGGTGCAACAAT 60
Qy 109 ATTGTTCTCTCCAAATGTGTACAAGGATTTGTACATCTCTCCGGGTACTTTAAGTTGAC 168
Db 61 ATTGTTCTCTCCAAATGTGTACAAGGATTTGTACATCTCTCCGGGTACTTTAAGTTGAC 120
Qy 169 CAGGCAATTCACATTTATATTGCGGTGATGAATGTGTGCAATTCCTCCACTTG 228
Db 121 TAGGACATTCACATTTATATTGCGGTGATGAATGTGTGCAATTCCTCCACTTG 180
Qy 229 GATTAGTCCGGGGGAAAGTCAATCGGTATATAATTCATCAACTAAAGAAATGTCCGAGA 288
Db 181 GATTAGTCCGGGGGAAAGTCAATCGGTATATAATTCATCAACTAAAGAAATGTCCGAGA 240
Qy 289 AATCTAAGTTGTTGAACCTGCTCAAGGCTACTCGGTAGGTGTTTGGTGGTTTGGCCCC 348
Db 241 AATCTAAGTTGTTGAACCTGCTCAAGGCTACTCGGTAGGTGTTTGGTGGTTTGGCCCC 300
Qy 349 ACCGGTGTGACTCGAGGACACCAACAATCACAGTCAATGACAGAACTCTACAGCAC 408
Db 301 ACCGGTGTGACTCGAGGACACCAACAATCACAGTCAATGACAGAACTCTACAGCAC 360
Qy 409 CATCGAAGTTACATCCAGTAGAGCCCATATATCTCGTCATCTAGTGGCCCTTAGCGCAT 468
Db 361 CATCGAAGTTACATCCAGTAGAGCCCATATATAGTGCATCTAGTGGCCCTTAGCGCAT 420
Qy 469 CAATGACCCACATTTGGCCCGGATCGAAAGCTGGG-CACCGCTTTTCGGGTCCATGCGG 527
Db 421 CAATGACCCACATTTGGCCCGGATCGAGAGCTGGCCACCGCTTATCGGGGTGATGCTG 480
Qy 528 CCCAAACGATGTATGACAGTGTGTTGGTACCTCGATAGTGGCAGCATAAAGTGAAGTCA 587
Db 481 CCCAGACGGTGTATGGACAGTGTGTTGGTACCTCGATAGTGGCAGCATAAAGTGAAGTCA 540
Qy 588 CAAAGCAAGAGGGAGAAACAAAGAGATCTCAAGTAGGCCCATGTTGTTGTAATTTT 647
Db 541 CAAAGCAAGAGGGAGAAACAAAGAGATCTCAAGTAGGCCCATGTTGTTGTAATTTT 600

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QY 648 ATATGTGGCAAAATTAATTTTGGTACTTTATATATAGGATATGGCGCTTTTGGCACTA 707
Db 601 ATATGTGGCAAAATTAATTTTGGTACTTTATATATAGGATATGGCGCTTTTGGCACTA 660
QY 708 CGGATTAATCGTATATATATAGCAATATCATACCTTTGACTAATTTATAAACGAAATATAT 767
Db 661 TGGATTAATCGTATATATATAGCAATATCATACCTTTGACTAATTTATAAACGAAATATAT 720
QY 768 TACAATATGATTTGGTAAACGTTGAGGTGGGAAATATGATATAGACCGCTTAATAATAA 827
Db 721 TACAATATGATTTGGTAAACGTTGAGGTGGGAAATATGATATAGACCGCTTAATAATAA 780
QY 828 TTATTTTATGATATAGCTATAGTTACAGTTTAACTTTATTTGGTGATTAACCTTTGACAT 887
Db 781 TTATTTTATGATATAGCTATAGTTACAGTTTAACTTTATTTGGTGATTAACCTTTGACAT 840
QY 888 ATAAACTCTGTAACTGTGACGGAATTTTCTTAAACTAAATATTAAGAGCAGCTATTTT 947
Db 841 ATAAACTCTGTAACTGTGACGGAATTTTCTTAAACTAAATATTAAGAGCAGCTATTTT 900
QY 948 CAGATTTTTCGGGCAAAAGTTTCTTGATATCTATCTATGCCCCATTTTACTTTTATCG 1007
Db 901 AATATTTTTCGGGCAAAAGTTTCTTGATATCTATCTATGCCCCATTTTACTTTTATCG 960
QY 1008 TTCTAGCCTTCTAGCTACACGTTTGAACATATAAAATCATATAAAATTCGAAAGTAAATTT 1067
Db 961 TTCTAGCCTTCTAGCTACACGTTTGAACATATAAAATCATATAAAATTCGAAAGTAAATTT 1020
QY 1068 AGTTTATTTTTCATATATCTAGTGGGATCAATTTGTTAGATCAATCTGAAATATACAA 1127
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QY 1128 ACCATCTGATTTTAAATACAAACATCTGCGCAAGGGAGTCTAT--GTGATCCGT 1184
Db 1078 ATCAATCTGATTTTAAATACAAACATCTGCGCAAGGGAGTCTAT--GTGATCCGT 1137
QY 1185 GACAGTGGTTGATTTTCTAGTCTAGTGGGATCACAATTTTATGTCGCAATATCT 1244
Db 1138 GACAGTGGTTGATTTTCTAGTCTAGTGGGATCACAATTTTATGTCGCAATATCT 1197
QY 1245 ATTAAGAACACCCCTATTGATGCAATATCTATTAAGAACACCCCTATTGCTTTTAT 1304
Db 1198 ATTAAGAACACCCCTATTGATGCAATATCTATTAAGAACACCCCTATTGCTTTTAT 1255
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Db 1256 TATTTTACGATCGGAGCATGATATATTTACTAATTAATAATTAATTAAGAGAAATGAT 1315
QY 1365 CGACAAGTCATCAAGCTTATCGTCGATCCACATTAAGTTAGTATGCTGCTTTT 1424
Db 1316 CGACAAGTCATCAAGCTTATCGTCGATCCACATTAAGTTAGTATGCTGCTTTT 1375
QY 1425 AGAGAAACAAAGTGGATCATGTATAATTTAGTTTAAATATCTCTCTATAAATATCTATAT 1484
Db 1376 AGAGAAACAAAGTGGATCATGTATAATTTAGTTTCCCTATCTCTATAAATATCTATAT 1435
QY 1485 ATACCTTAAACTAAATGATCTTAACAAACAAATATAAATCTAGATCTTTTAAAGAAA 1544
Db 1436 ATACCTTAAACTAAATGATCTTAACAAACAAATATAAATCTAGATCTTTTAAAGAAA 1495
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Db 1496 TTGCGAGATTAATCGGCAATTAAGTCTATGTTGAGTTGGTTGCTTTC 1546
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RESULT 6
US-10-903-948-3
; Sequence 3, Application US/10903948
; Publication NO. US20050005324A1
; GENERAL INFORMATION:
; APPLICANT: DAI, ZIYU
; APPLICANT: SHI, LIFANG
; APPLICANT: HOOKER, BRIAN S.

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; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF  
; FILE REFERENCE: 059440/0141  
; CURRENT APPLICATION NUMBER: US/10/903,948  
; CURRENT FILING DATE: 2004-07-30  
; PRIOR APPLICATION NUMBER: US/10/051,307  
; PRIOR FILING DATE: 2002-01-22  
; PRIOR APPLICATION NUMBER: 60/263,224  
; PRIOR FILING DATE: 2001-01-23  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 1546  
; TYPE: DNA  
; ORGANISM: Solanum tuberosum  
; FEATURE:  
; NAME/KEY: modified_base  
; LOCATION: (1248)  
; OTHER INFORMATION: a, t, c or g  
US-10-903-948-3
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Query Match 85.4%; Score 1362.4; DB 21; Length 1546;
Best Local Similarity 94.1%; Pred. No. 2.1e-285;
Matches 1460; Conservative 0; Mismatches 82; Indels 9; Gaps 4;

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QY 49 ATCTTTGTTTCAAAAAATTTGAAAGAACGTAGGACCAATGGACCTTGGGTGCAACAT 108
Db 1 ATCTTTGTTTCAAAAAATTTGAAAGAACGTAGGACCAATGGACCTTGGGTGCAACAT 60
QY 109 ATTGTTGTCCTCCAAATGTTGTAAGGATTTGTACATCCTCCGGGTACTTTAAAGTTGAC 168
Db 61 ATTGTTGTCCTCCAAATGTTGTAAGGATTTGTACATCCTCCGGGTACTTTAAAGTTGAC 120
QY 169 CAGGCAATTCACCAATTTATATTTGCGGTGCAATTTGAATTTGTGTGGCAATTTCCCTCCACTTG 228
Db 121 TAGGACATTCACCAATTTATATTTGCGGTGCAATTTGAATTTGTGTGGCAATTTCCCTCCACTTG 180
QY 229 GATTTAGTCGGGGCGAAGTCATCGGTATATTAAATCCATCAACTAAAGAAATGTCCCA 288
Db 181 GATTTAGTCGGGGCGAAGTCATCGGTATATTAAATCCATCAACTAAAGAAATGTCCCA 240
QY 289 AATCTAAGTTGTTGAACTGGTCCAAAGGCGTACTCGGCTAGGCTGTTTGGTGGTTTGCCTC 348
Db 241 AATCTAAGTTGTTGAACTGGTCCGAGGCGTACTCGGCTAGGCTGTTTGGCGGTTTACCCC 300
QY 349 ACCCGGTGCACTGCAAGACACACCAATCAACAGTCATGCAAGAACTCTTACCAGCAC 408
Db 301 ACCCGGTGCACTGCAAGACACACCAATCAACAGTCATGCAAGAACTCTTACCAGCAC 360
QY 409 CATCGAAGTTACATCCAGTCAGACCCCATATACCTGCCATCGTAGTGCCTTAGGCGCAT 468
Db 361 CATCGAAGTTACATCCAGTCAGACCCCATATACCTGCCATCGTAGTGCCTTAGGCGCAT 420
QY 469 CAATGACCCACATTTGGCGCCGATCGAAACCGTCCG-CAACCCGCTTTTCGGGGTTCGATGCGG 527
Db 421 CAATGACCCACATTTGGCGCTCGATCGAGACGTCGCGCACCGCTTATCGGGGTTCGATGCTG 480
QY 528 CCCAAACGATGTATGACAGTTGTTGCTA CTTCCATAGTGGCAGCATAAGTGAAGTCA 587
Db 481 CCCAGACGCTGTATGGAACAGTTGTTGCTA CTTCCATAGTGGCAGCATAAGTGAAGTCA 540
QY 588 CAAAGCAGAGGAGGAGAAACAAAGAGATCTCAAGTAGCCCATGTTGTTGTAATTT 647
Db 541 CAAAGCAGAGGAGGAGAAACAAAGAGATCTCAAGTAGCCCATGTTGTTGTAATTT 600
QY 648 ATATGTGACAAATTTATTTTGGTACTTTATATATAGGATATGCGGCTTTTGGCACTA 707
Db 601 ATATGTGACAAATTTATTTTGGTACTTTATATATAGGATATGCGGCTTTTGGCACTA 660
QY 708 CGGATTAATCGTATATATATAGCAATATCATACCTTTGACTAATTTATAAACGAAATATAT 767
Db 661 TGGATTAATCGTATATATATAGCAATATCATACCTTTGACTAATTTATAAACGAAATATAT 720
QY 768 TACAATATGATTTGGTAAACGTTGAGGTGGGAAATATGATATAGACCGCTTAATAATAA 827
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Db	721	TACAATATGATTTGGTAAACGGTTGAGGTGGCAAAATGTTATAAGAGCCGCTTAATAAATTA	780
Qy	828	TTATTTTATGAATATAGCTATAGTTACAAAGTTAACTTTATTTTGGTGATAACTTTTGACAT	887
Db	781	TTATTTTATGAATATAGACTATAGTTACAAAGTGAACTTTATTTGGTGATACTTTGGACAT	840
Qy	888	ATAAATCTCTGPAACGTCGCGGAATTTTCTTAAAACTAAATATTTAAAAAGCAGCATTTTT	947
Db	841	ATAAATCTGTATCGTCGCGGAATTTTCTTAAAACTAAATATTTAAAAAGCAGCATTTTT	900
Qy	948	CAGATTTTTCTGTGGCCAAAGTTTCTTGCAATCTTATCTATGCCCAATTTTACTTTTATCG	1007
Db	901	AATATTTTTCTGTGGCCAAAGTTTCTTGCAATCTTATCTATGCCCAATTTTACTTTTATCG	966
Qy	1008	TTCTAGGCTTCTAGGTACACGTTTGAACATAAAAAATCATAAAAATTTGAAAGTAAAAATT	1067
Db	961	TTCTAGGCTTCTAGGTACGCGTTTGAACATAAAAAATCATAAAAATTTGAAAGTAAAAATT	1020
Qy	1068	AGTTTTTTTTTTCATATTAATCTCGTAGGGATCATTTGTTAGATCAATCTCGAAATATACAA	1127
Db	1021	AG---TTTTTTTTTCATATTAATCTCGTAGGGATCATTTGTTAGATCAATCTCGAAATATACAA	1077
Qy	1128	ACAAATCTGATTTTAAAAATCAACACCAATCTCGCCAGGGGAAGTCTAT---GTGATCCGT	1184
Db	1078	ATCAATCTGATTTTAAAAATCAATACTATTTCTGCATGATGGGAACGCTCTATGGTGAATTCGT	1137
Qy	1185	GACAAGTGGTTTGATTAATCTTCTAGCTAGATTGGAGTCACAACTTTTGTAGTGCRAATATCT	1244
Db	1138	GACAAGTGGTTTGATTAATCTTCTAGCTAGATTGGAGTCACAACTTTTGTAGTGCRAATATCT	1197
Qy	1245	ATTAAGAAACCCCTATTGTATGCAAAATCTATTAAAAAGAACCCCTATTCTATGCTTTATT	1304
Db	1198	ATTAAGAAACCCCTATTGTATGCAAAAGTCAATAAA--TATTTAAATCATNCTTTATT	1255
Qy	1305	TATTTTACGATCGAGCATGGATATATTTTACTAATTTAAAAATAAATTTGGAAGGAATTTGAT	1364
Db	1256	TATTTTACGATCGAGCATGGATATATTTTACTAATTTAAAAATAAATTTGGAAGGAATTTGAT	1315
Qy	1365	CGACAAGTCATCAAGCTTATCGTCGATCCCAATTTAAAAATAACGTTAGTAGTGGCGCTTTT	1424
Db	1316	CGACAAGTCATCAAGCTTATCGTCGATCCCAATTTCCCTCAACGTTAGTAGTGGCGCTTTT	1375
Qy	1425	AGAGAAACAAGTGATCATGTATAATTTAGTTTTTAAAAATATCTCCTATAAATATCTATAT	1484
Db	1376	AGAGAAACAAGTGATCATGTATAATTTAGTTTTTCCCTATATCTCCTATAAATATCTATAT	1435
Qy	1485	ATACCTCTAAAACTAAATGTCATCTAACCAACAATAATAAATCTTAGATTTCTTTAAAGAAA	1544
Db	1436	ATACCTCTAAAACTAAATGTCATCTAACCAACAATAATAAATCTTAGATTTCTTTAAAGAAA	1495
Qy	1545	TTGAGAAATTAATTTGGAGGCAAAATAAGTCTTAGTGAAGTTGGTTGCTTTC	1595
Db	1496	TTGAGAAATTAATTTGGAGGCAAAATAAGTCTTAGTGAAGTTGGTTGCTTTC	1546

RESIT.T 7

US-10-341-961A-371/c
; Sequence 371, Application US/10341961A
; Publication No. US20040006787A1

; GENERAL INFORMATION:

APPLICANT: Boyce Thompson Institute for Plant Research, Inc.

APPLICANT: Curagen Corporation

APPLICANT: Crasta, Oswald

; APPLICANT: Swirsky, Peter

APPLICANT: Mysore, Kiran

APPLICANT: Folkerts, Otto

APPLICANT: Martin, Gregory

: APPLICANT: Ekengren, Sophia
 : TITLE OF INVENTION: PLANT DEFENSE-RELATED GENES REGULATED IN RESPONSE TO PLANT-PATHOGEN
 :
 : TITLE OF INVENTION: INTERACTIONS AND METHODS OF USE
 :

FILE REFERENCE: BTI.67A2

; CURRENT APPLICATION NUMBER: US/10/341,961A

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, CURRENT FILING DATE: 2003-01-14
, PRIORITY APPLICATION NUMBER: 60390249
, PRIORITY FILING DATE: 2003-06-20
, PRIORITY APPLICATION NUMBER: 60261029
, PRIORITY FILING DATE: 2001-01-11
, PRIORITY APPLICATION NUMBER: 60348792
, PRIORITY FILING DATE: 2002-01-14
, NUMBER OF SEQ ID NOS: 395
, SOFTWARE: PatentIn version 3.1
, SEQ ID NO 371
, LENGTH: 510
, TYPE: DNA
, ORGANISM: Lycopersicon esculentum
US-10-341-961A-371

```

[illegible]

RESULT 8

US-09-938-842A-2118/c

US 09 350 042A 2118/C
; Sequence 2118, Application US/09938842A
; Patent No. US20020160378A1

; GENERAL INFORMATION:

APPLICANT: Harper, Jeff

APPLICANT: Kreps, Joel

APPLICANT: Wang, Xun

APPLICANT: Zhu, Tong

; TITLE OF INVENTION: STRESS-REGULATED GENES OF

; TITLE OF INVENTION: SAME, AND METHODS OF USE

; FILE REFERENCE: SCRI1300-3

; CURRENT APPLICATION NUMBER: US/0

;
;
CURRENT FILING DATE: 2001-08-24

;
;
PRIOR APPLICATION NUMBER: US

PRIOR FILING DATE: 2000-08-24

;; PRIOR APPLICATION NUMBER: US 60/264,647

PRIOR FILING DATE: 2001-01-16

; PRIOR APPLICATION NUMBER: US
 : PRIOR FILING DATE: 2001-06-22

; PRIOR FILING DATE: 2001-06
: NUMBER OF SEQ ID NOS. 5379

; CURRENT APPLICATION NUMBER: US/10/341,961A


```
; SEQ ID NO 2118
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-2118

Query Match      12.3%; Score 195.6; DB 9; Length 735;
Best Local Similarity 62.3%; Pred. No. 3.2e-32;
Matches 365; Conservative 0; Mismatches 204; Indels 17; Gaps 3;

QY 46 GGTATCTTTGTTGAAAAAATGGAAAAAGAGTAGGACCAATG-----GACCTTGGG 99
Db 586 GGCATCTCTGCTTAAAGAAATCTTGAGTACTCAGTATCGTACATGATCCCTGACCGTTGG 527
QY 100 TGCACAAATATGTTGCTCCAAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 159
Db 526 TACAACAGTATTTGGTTCGTCTGTAATACAGTACACGGGTTGTTGATCCACCTGGGGCTC 467
QY 160 TAAAGTTGACAGGCAATTCACCAATTTATTTGCGCGTGCATTTGAATTTGTTGGCATTTCC 219
Db 466 TCAACAGCTTTGGACATTTGTCGTTTATGTTCTGCGGTACATAGTATCCGATGGCAGTTC- 408
QY 220 CTCACCTTTGGATTTAGTTCGGGGCGAAAGTCAATCGGTATATTAATCCATCAACTAAAGAAA 279
Db 407 -----GAACTAGTTGGGCTAAACTCCATAGGTATGTTAAATCCATCGACAAGTGAGA 356
QY 280 TGTCCAGAAATCTAAGTTTGTGAATCTGGTCCAAAGCGTACTCGCGTAGGTTGTTGGTG 339
Db 355 TATCGTAGAAGTCTAAGTTTGTGAATTTGGTTTCAAGCGTACTCAGCCAAACGTTTGGTG 296
QY 340 GTTTCGCCCCACCGGTGCACCTGCAGGACACCAACCAATCACCAGTCAATGACGAAACCTC 399
Db 295 GCTGTCCCGACCGAGTACATTTGGAGTCCACCACTGCAGTCCACGATTTGGCATCGGCCAC 236
QY 400 TACCAGCACCATCGAAGTTACATCCAGTACGACGACGACGACGACGACGACGACGACGACG 459
Db 235 GACCTGAGGAGTCAAAGTTTACAATTTGGTCTTACCCAAATCGTGCCATTTTAGTGCCGG 176
QY 460 TAGGCGCATCAATGACCCACATTTGGCGCCGATCGAAGCGTCCGACCGGCTTCGGGGT 519
Db 175 CCGCGACATCTAGCCTCCATGATTTGGCCAGCATCTAGACGTCGG--CCACCTCCAGGGCT 118
QY 520 CGATGCCGCCCAACGATGTGACAGTGTGTTGGTACCTCGATAGTGCGAGCATAGT 579
Db 117 TCGCGACCCACACCGGTGTAATCTACATTTGGTTTAGGATTTTGAATGTTGGCGGCTGTTGC 58
QY 580 GAAAGTCAAAAAGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 625
Db 57 GGTGAGATGAGCAAAAGTGGCGGAAAATATGAAAGTAGAGACCAAG 12
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RESULT 9
US-09-938-842A-2118/c
; Sequence 2118, Application US/09938842A
; Publication No. US20040009476A9
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; TITLE OF INVENTION: SAME, AND METHODS OF USE
; FILE REFERENCE: SCRIPT300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 2118
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; LENGTH: 735
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-2118

Query Match      12.3%; Score 195.6; DB 11; Length 735;
Best Local Similarity 62.3%; Pred. No. 3.2e-32;
Matches 365; Conservative 0; Mismatches 204; Indels 17; Gaps 3;

QY 46 GGTATCTTTGTTGAAAAAATGGAAAAAGAGTAGGACCAATG-----GACCTTGGG 99
Db 586 GGCATCTCTGCTTAAAGAAATCTTGAGTACTCAGTATCGTACATGATCCCTGACCGTTGG 527
QY 100 TGCACAAATATGTTGCTCCAAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 159
Db 526 TACAACAGTATTTGGTTCGTCTGTAATACAGTACACGGGTTGTTGATCCACCTGGGGCTC 467
QY 160 TAAAGTTGACAGGCAATTCACCAATTTATTTGCGCGTGCATTTGAATTTGTTGGCATTTCC 219
Db 466 TCAACAGCTTTGGACATTTGTCGTTTATGTTCTGCGGTACATAGTATCCGATGGCAGTTC- 408
QY 220 CTCACCTTTGGATTTAGTTCGGGGCGAAAGTCAATCGGTATATTAATCCATCAACTAAAGAAA 279
Db 407 -----GAACTAGTTGGGCTAAACTCCATAGGTATGTTAAATCCATCGACAAGTGAGA 356
QY 280 TGTCCAGAAATCTAAGTTTGTGAATCTGGTCCAAAGCGTACTCGCGTAGGTTGTTGGTG 339
Db 355 TATCGTAGAAGTCTAAGTTTGTGAATTTGGTTTCAAGCGTACTCAGCCAAACGTTTGGTG 296
QY 340 GTTTCGCCCCACCGGTGCACCTGCAGGACACCAACCAATCACCAGTCAATGACGAAACCTC 399
Db 295 GCTGTCCCGACCGAGTACATTTGGAGTCCACCACTGCAGTCCACGATTTGGCATCGGCCAC 236
QY 400 TACCAGCACCATCGAAGTTACATCCAGTACGACGACGACGACGACGACGACGACGACGACG 459
Db 235 GACCTGAGGAGTCAAAGTTTACAATTTGGTCTTACCCAAATCGTGCCATTTTAGTGCCGG 176
QY 460 TAGGCGCATCAATGACCCACATTTGGCGCCGATCGAAGCGTCCGACCGGCTTCGGGGT 519
Db 175 CCGCGACATCTAGCCTCCATGATTTGGCCAGCATCTAGACGTCGG--CCACCTCCAGGGCT 118
QY 520 CGATGCCGCCCAACGATGTGACAGTGTGTTGGTACCTCGATAGTGCGAGCATAGT 579
Db 117 TCGCGACCCACACCGGTGTAATCTACATTTGGTTTAGGATTTTGAATGTTGGCGGCTGTTGC 58
QY 580 GAAAGTCAAAAAGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 625
Db 57 GGTGAGATGAGCAAAAGTGGCGGAAAATATGAAAGTAGAGACCAAG 12
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```
RESULT 10
US-09-770-445-334/c
; Sequence 334, Application US/09770445
; Patent No. US20020023281A1
; GENERAL INFORMATION:
; APPLICANT: Goriach, Jörn
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Matthew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Woessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Kricker, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
```


; APPLICANT: Hurban, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: thaliana
; CURRENT APPLICATION NUMBER: US/09/770,445
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: US 60/178,472
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 999
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 334
; LENGTH: 950
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; ORGANISM: Arabidopsis thaliana
US-09-770-445-334

Query Match 12.3%; Score 195.6; DB 9; Length 950;
Best Local Similarity 62.3%; Pred. No. 3.6e-32; Indels 17; Gaps 3;
Matches 365; Conservative 0; Mismatches 204;
Qy 46 GGTATCTTTGTTGAAAAAATGGAAAAAGACGTAGGACCAATG-----GACCTTGGG 99
Db 594 GGCATCTCTGTTAAAGATCTTCAGTACTCAGTATCGCTACATGATCCCTGACCGTTCG 535
Qy 100 TGCACAAATATGTTGCTCTCAAATGTGTGACAAAGATGTTATCATCTCCGGGTACTT 159
Db 534 TACAACAGTATGTTGTTGCTCTGAAATACAGTACACGGGTGTTGTCATCCACCTGGGGTC 475
Qy 160 TAAGTGACAGGCAATCCACATTTATATTTGCGGTGCAATGATGTTGTGGCAATTC 219
Db 474 TCAACACGTTTGGACATTTGCTCGTTTATGTCGCGGTACATAGTATCCGATGGCAGTTC- 416
Qy 220 CTCACCTTGGATTAGTTCGGGCGAAAGTCATCGGTATATTAATTAATCACTCACTAAAGAA 279
Db 415 -----GAACTAGTTGGGCTAACTCCATAGTATGTTAAATCCATCGCAAGTGAGA 364
Qy 280 TGTCGCCAGAAATCTAAGTTGTTGAACCTGGTCCAAAGCGGTACTCGGCTAGGGTGTGGTG 339
Db 363 TATCGTAGAGTCTAAGTTGTTGAATTTGTTCAAGCGTACTCAGCCAAACGTGTTGGTG 304
Qy 340 GTTTGCCCCACCGGTGCACTGCAAGGACACACCAATACCAATGATGATGATGATGATGATG 399
Db 303 GCTGTCCCAACCGCATATGAGTGCAGTCCACCATGCACTGCACTGCACTGCACTGCACTG 244
Qy 400 TACCAGCACCATCGAAGTTACATCCAGTACGACCCCAATATACCTGCACTGCTAGTGCCTC 459
Db 243 GACCTGAGGAGTCAAGTTTCAATTTGTTCTTACCCCAATCCGTCGCAATTTAGTGCCTG 184
Qy 460 TAGCGCATCAATGACCCACATTTGGCCCGCATCGAAACGTCGGCACCCGCTTTTCGGGGT 519
Db 183 CCGCGACATCTAGCTCCATGTTGGCCAGCATCTAGAGCTCGG--CCACCTCCAGGGCT 126
Qy 520 CGATGCCGCCCAACGATGATGACAGTGTGTCGATCTGATGATGATGATGATGATGATGATG 579
Db 125 TCGCGCACCCACACGGGTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 66
Qy 580 GAAAGTCACAAAGCAAGAGGAGAAACAAAGAGATCTCAAG 625
Db 65 GGTGAGATGAGCAAAAGTGCAGAAATATGAAAGTAGAGACCAAG 20

RESULT 11
US-10-424-599-36321/c
; Sequence 36321, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 36321
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1..(1956))
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_WRT3847_132800C.1
; US-10-424-599-36321

Query Match 10.8%; Score 173; DB 18; Length 1956;
Best Local Similarity 59.5%; Pred. No. 4.1e-27;
Matches 355; Conservative 0; Mismatches 225; Indels 17; Gaps 3;
Qy 45 TGGTATCTTTTGTGAAAAAATGGAAAAAGACGTAGGACCA-----TGGACCTTGG 98
Db 1338 TGGCACCTATCTCTTGAAGAACCTTTGAGTAGTTTGTGGGCCACAGCTTCTCTTGCCTTGG 1279
Qy 99 GTGCAACAATATTTGTTGCTCTCAAATGTGTGTAACAAGATGTTTACATCTCTCCGGTACT 158
Db 1278 GTGCAACAATATCTCATTTCTGCTTTAAACACAGTGCAGGGGTTTGTGCAATCCCCAGGTGCC 1219
Qy 159 TTAAGTTGACAGGCAATTCACCAATTTATTTTCCGTTGCAATGAAATTTGTGTGCAATTC 218
Db 1218 CTTAATGCCCCCGGCACTGCCCAATGATATCAGCGCTGCACACTGATTTTGTGACACCA 1159
Qy 219 CCTCCACTTGGATTAGTTCGGGCGGAAAGTTCATCGGTATATTAATTAATCACTCACTAAAGAA 278
Db 1158 CC-----GTTTGAAGGTAGAGTCCATCGAATGTTGAACCCGTCACCAAGAG 1108
Qy 279 ATGTCGCCAGAAATCTAAGTTGTTGAACTGTGTCGAAGCGGTACTCGGCTAGGGTGTGGT 338
Db 1107 ATGTCGTAGAAATCTCTGTTGCCAAATTTGTTTCAACGCAATTCGCAAGTGTGTGGGA 1048
Qy 339 GGTTCGCCCCACCGGTGCACTGCAGGACACCAACCAATCACCAGTCATCAGCAACT 398
Db 1047 GGGACCCCGGAGCTTGGCAATTTGAGCGCGCGCTGAGTCTCCCGTTTGGCAGCGCGG 988
Qy 399 CTACAGCACCATCGAAGTTACATCCAGTACGACCCCAATATACCTGCGCATCTGATGCGCC 458
Db 987 CGGCGGTGCAATCAAGTTGCAACCGGTGCGGCCCATATACGGGCATGCGAGTGCCT 928
Qy 459 CTAGGCGCATCAATGACCCACATTTGGCCCGCATCGAAACGTCGGCACCCGCTTTTCGGGG 518
Db 927 GGGTTTACCCAGAGGTTCCACGTTTGGCCACCGTCCAGACGCGCGCGCTCCAC--CCGAC 870
Qy 519 TCGATGCCGCCCAACGATGATGACAGTGTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 578
Db 869 TCGCGCGCGGCCACACCGTGTAGGGGCAATTTGTTGACGATCTCGAAGTTTTCAGCATGTA 810
Qy 579 TGAAGTTCACAAAGCAAGAGGAGAAACAAAGAGATCTCAAGTAGGCCCATGT 635
Db 809 TTGTTGCAAAAGTAAAGCCCAAGTTAGCAGAGACAGTGCACAGTAAACCATTT 753

RESULT 12
US-10-636-396-4/c
; Sequence 4, Application US/10636396
; Publication No. US20040073971A1
; GENERAL INFORMATION:
; APPLICANT: Bidney, Dennis L.
; APPLICANT: Crasta, Oswald R.
; APPLICANT: Duvick, Jon
; APPLICANT: Hu, Xu
; APPLICANT: Lu, Guihua
; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
; TITLE OF INVENTION: Genes and their Uses
; FILE REFERENCE: 5718-90

```
; CURRENT APPLICATION NUMBER: US/10/636,396
; CURRENT FILING DATE: 2003-08-07
; PRIOR APPLICATION NUMBER: US/09/589,733C
; PRIOR FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: 60/140,646
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/162,904
; PRIOR FILING DATE: 1999-11-01
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 875
; TYPE: DNA
; ORGANISM: Helianthus annuus
US-10-636-396-4

Query Match          10.7%; Score 170.4; DB 18; Length 875;
Best Local Similarity 59.7%; Pred. No. 1e-26;
Matches 325; Conservative 0; Mismatches 211; Indels 8; Gaps 2;

QY 49 ATCTTTGTTTGAATAAATGGAAAGACGTAGGACCAATGACCTTTGGGTGCAACAAT 108
Db 577 ATCTGCTCTTGAATAAATGGAAAGACGTAGGACCAATGACCTTTGGGTGCAACAAT 518
QY 109 ATTGTTGCTTCCAAATGTTGACAGGATTTGATCATCTCTCCGGTACTTTAAGTTGAC 168
Db 517 ACTGATCAGTTTGTACACGGTGCAGGGTTATTGACCCCGCAGGACCCGTAACCTCAC 458
QY 169 CAGGGCAATTCACCAATTAATTTGCGCTGCAATTTGAATTTGTGGCAATTTCCCTCCACTTG 228
Db 457 CAGGACACTGGCCATTTGATATCCGACGTACATGAGTACCCCGGTGCACCC-----AT 404
QY 229 GATTAGTCGGGGCGAAAGTCATCGGTATATTAATTCATCAACTAAAGAAATGTCCCGAGA 288
Db 403 TAGAATTTGGTCTAAACACCATCGGCACATTTGAATTCGTCACAGAGAAATGTCAAAGA 344
QY 289 AATCTAAGTTGTTGAACCTGGTCCAGGGCTACTCGGCTAGGGTGTGGTGGTGGTGGTGGTGG 348
Db 343 AATCAAGATTTGTGAACCTGGTCCAGGGCTACTCGGCAATTTGTGGTGGGTGGGTGGTGGTGG 284
QY 349 ACCCGGTGCATCGCAGGACACCAACCAATCAACAGTCATGACGAACTCTTACCAGCAC 408
Db 283 AGTTTGGCATTTGGAGGACCGTTGCAATCACCGTCTGACACCTGCTCGCCGACAGAC 224
QY 409 CATCGAAGTTACATCCAGTACGACCCCATATACCTGCGCATCGTAGTGCCTTCCCTAGCGCAT 468
Db 223 CATCAAGTTGCAATTTGGTTCGGGCGCATATACGGGCTCTCTGTGCGCAGCTGCGACGG 164
QY 469 CAATGACCCACATTTGGCCCCGATCGAAACGTGCGGACCCGCTTTCCGGGTGCGTCCGCG 528
Db 163 TTAAGACACAGTTTGGGCTGAGTTAAGTTGTGCGCGCCGAC--CAGGACCGCCACGAC 106
QY 529 CCAACAGCATGTATGACAGTTGTTGCGTACCTCGATAGTGGCAGCATAGTGAAGTGCAC 588
Db 105 CCAACAGGTGTATGACAGTTGTTGCGATAGTGAACAGGCTGCAATGTTGTTAGTGTGAAA 46
QY 589 AAAA 592
Db 45 AAGA 42
```

```
RESULT 13
US-10-636-026-4/c
; Sequence 4, Application US/10636026
; Publication No. US2004011761A1
; GENERAL INFORMATION:
; APPLICANT: Bidney, Dennis L.
; APPLICANT: Crasca, Oswald R.
; APPLICANT: Duvick, Jon
; APPLICANT: Hu, Xu
; APPLICANT: Lu, Guihua
; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
; TITLE OF INVENTION: Genes and their Uses
```

```
; FILE REFERENCE: 5718-90
; CURRENT APPLICATION NUMBER: US/10/636,026
; CURRENT FILING DATE: 2003-08-07
; PRIOR APPLICATION NUMBER: US/09/589,733C
; PRIOR FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: 60/140,646
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/162,904
; PRIOR FILING DATE: 1999-11-01
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 875
; TYPE: DNA
; ORGANISM: Helianthus annuus
US-10-636-026-4

Query Match          10.7%; Score 170.4; DB 19; Length 875;
Best Local Similarity 59.7%; Pred. No. 1e-26;
Matches 325; Conservative 0; Mismatches 211; Indels 8; Gaps 2;

QY 49 ATCTTTGTTTGAATAAATGGAAAGACGTAGGACCAATGACCTTTGGGTGCAACAAT 108
Db 577 ATCTGCTCTTGAATAAATGGAAAGACGTAGGACCAATGACCTTTGGGTGCAACAAT 518
QY 109 ATTGTTGCTTCCAAATGTTGACAGGATTTGATCATCTCTCCGGTACTTTAAGTTGAC 168
Db 517 ACTGATCAGTTTGTACACGGTGCAGGGTTATTGACCCCGCAGGACCCGTAACCTCAC 458
QY 169 CAGGGCAATTCACCAATTAATTTGCGCTGCAATTTGAATTTGTGGCAATTTCCCTCCACTTG 228
Db 457 CAGGACACTGGCCATTTGATATCCGACGTACATGAGTACCCCGGTGCACCC-----AT 404
QY 229 GATTAGTCGGGGCGAAAGTCATCGGTATATTAATTCATCAACTAAAGAAATGTCCCGAGA 288
Db 403 TAGAATTTGGTCTAAACACCATCGGCACATTTGAATTCGTCACAGAGAAATGTCAAAGA 344
QY 289 AATCTAAGTTGTTGAACCTGGTCCAGGGCTACTCGGCTAGGGTGTGGTGGTGGTGGTGGTGG 348
Db 343 AATCAAGATTTGTGAACCTGGTCCAGGGCTACTCGGCAATTTGTGGTGGGTGGGTGGTGGTGG 284
QY 349 ACCCGGTGCATCGCAGGACACCAACCAATCAACAGTCATGACGAACTCTTACCAGCAC 408
Db 283 AGTTTGGCATTTGGAGGACCGTTGCAATCACCGTCTGACACCTGCTCGCCGACAGAC 224
QY 409 CATCGAAGTTACATCCAGTACGACCCCATATACCTGCGCATCGTAGTGCCTTCCCTAGCGCAT 468
Db 223 CATCAAGTTGCAATTTGGTTCGGGCGCATATACGGGCTCTCTGTGCGCAGCTGCGACGG 164
QY 469 CAATGACCCACATTTGGCCCCGATCGAAACGTGCGGACCCGCTTTCCGGGTGCGTCCGCG 528
Db 163 TTAAGACACAGTTTGGGCTGAGTTAAGTTGTGCGCGCCGAC--CAGGACCGCCACGAC 106
QY 529 CCAACAGCATGTATGACAGTTGTTGCGTACCTCGATAGTGGCAGCATAGTGAAGTGCAC 588
Db 105 CCAACAGGTGTATGACAGTTGTTGCGATAGTGAACAGGCTGCAATGTTGTTAGTGTGAAA 46
QY 589 AAAA 592
Db 45 AAGA 42
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RESULT 14
US-10-424-599-103619/c
; Sequence 103619, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
```

FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 103619
LENGTH: 909
TYPE: DNA
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_64586C.1
US-10-424-599-103619

Query Match 10.5%; Score 167; DB 18; Length 909;
Best Local Similarity 60.7%; Pred. No. 5.7e-26;
Matches 327; Conservative 0; Mismatches 205; Indels 7; Gaps 3;

Qy	46	GGTATCTTTCTTTGAAAAAATTGGAAGAAGACGTAGGACACATGGACCTTGGGTGCAAC	105
Db	631	GGACCTTTGCTTTGAAGAACTCTGAATAATCAGTGGGCCACACGACTACCGAATTGCAAC	572
Qy	106	AATATTGTTGTCCTCCAAATGTGTAACAAGATTGTTACATCTCCGGGTACTTTAAGTT	165
Db	571	AGTACTGGTCGGTTTGAAGACAGTCAAGGGTTGTTGCAACCTCTTGGAGTCTTTAGCT	512
Qy	166	GACAGGGCAATCACCAATTTATATTTGCCGTGCAATGAATGTGTGGCATTTCCCTCCAC	225
Db	511	CACTAGGGCACTGTCCGTTAATGTCCGCACTGCA---GCTTATGCCACGTTGCATCCAT	455
Qy	226	TTGGATTAGTCGGGGCGAAGTCATCGGTATATTAATCCATCAACTAAGAAATGTCCTC	285
Db	454	TCG---AGGTTGGACTAAAGTCCATGGGCACTTTAAACCCGTGACGAGGGAGATGTGCA	398
Qy	286	AGAAATCTAAGTTGTTGAACTGTGTCCAAGGCGTACTCGGCTAGGGTGTGTTGGTGTTCG	345
Db	397	AGAAGTCCAATTTGTTGAACCCGTTTCAAGGCGGTATTACGACGAGGGTGTTCGGAGGCGCAC	338
Qy	346	CCCAACCGGTGCACTGCAGGACACCAACAATCACCAAGTCATGCACGAACCTCTTACCAG	405
Db	337	CGTAAGCTTTTGCAGTCGAGGACACCCCGCAGTCACCGGTCTGGCATCCACCGCGCCCG	278
Qy	406	CACATCGAAGTTACATCCAGTACGACCCCATATACCTGCATCGTAGTGCCCTTAGCGG	465
Db	277	AACCGTCGAAGTTGTCAGCCGGTTTCGGGCCCAACCGCGGGCCCTTTGTTCTCTGCAAGGCA	218
Qy	466	CATCAATGACCCACATTTGGCCCCGATTCGAAAAAGTCGGCACCCCGCTTTTCGGGGTTC-GATG	524
Db	217	CGTCCACGACCACTGACTGCCCCGGGTTTAATTGACGCCACCGCCCAACAGGCACAGACG	158
Qy	525	CCGCCCCAAACGATGTATGGAACAGTTGTTCGGTACCTCGATAGTGGCAGCATAAGTGAAA	583
Db	157	CAGCCACAGACAGTGTATGTGCATCGGTTTGTGATTTCAAACCTTTGCAGCATATGCGGAA	99

RESULT 15
US-10-259-165-389/c
Sequence 389, Application US/10259165
Publication No. US20030135888A1
GENERAL INFORMATION:
APPLICANT: Zhu, Tong
APPLICANT: Wang, Xun
APPLICANT: Chang, Hur-bong
APPLICANT: Briggs, Steven P.
APPLICANT: Cooper, Bret
APPLICANT: Glazebrook, Jane
APPLICANT: Goff, Stephen A.
APPLICANT: Katagiri, Fumiaki
APPLICANT: Kreps, Joel
APPLICANT: Moughamer, Todd
APPLICANT: Provart, Nicholas
APPLICANT: Ricke, Darrell
TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
FILE REFERENCE: 70030-NP
CURRENT APPLICATION NUMBER: US/10/259,165

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 17, 2005, 17:23:59 ; Search time 260.504 Seconds
(without alignments)
10018.495 Million cell updates/sec

Title: US-10-051-307-1

Perfect score: 1595

Sequence: 1 gtaatacgactcactatagg.....tggtgaagtggtgtttc 1595

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents, NA:*

- 1: /cgm2_6/ptodata/1/ina/5A COMB.seq:*
- 2: /cgm2_6/ptodata/1/ina/5B COMB.seq:*
- 3: /cgm2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgm2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgm2_6/ptodata/1/ina/PCTUS COMB.seq:*
- 6: /cgm2_6/ptodata/1/ina/backfiles.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	479.2	30.0	3033	1	US-08-482-037A-1
C 2	430.2	27.0	883	1	US-07-828-798C-4
C 3	430.2	27.0	883	2	US-08-315-868A-4
C 4	430.2	27.0	883	3	US-08-495-819B-4
C 5	430.2	27.0	884	1	US-07-828-798C-5
C 6	430.2	27.0	884	2	US-08-315-868A-5
C 7	430.2	27.0	884	3	US-08-495-819B-5
C 8	170.4	10.7	875	4	US-09-589-733C-4
C 9	155.2	9.7	900	1	US-08-181-271A-4
C 10	155.2	9.7	900	1	US-08-449-315-4
C 11	155.2	9.7	900	1	US-08-444-803-4
C 12	155.2	9.7	900	1	US-08-449-043-4
C 13	155.2	9.7	900	1	US-08-456-265A-4
C 14	155.2	9.7	900	1	US-08-455-416-4
C 15	155.2	9.7	900	1	US-08-455-244-4
C 16	155.2	9.7	900	1	US-08-454-876-4
C 17	155.2	9.7	900	2	US-08-457-364-4
C 18	155.2	9.7	900	2	US-08-456-262-4
C 19	155.2	9.7	900	2	US-08-456-240-4
C 20	155.2	9.7	900	2	US-08-455-736-4
C 21	155.2	9.7	900	2	US-08-971-217-4
C 22	155.2	9.7	900	3	US-09-350-600-4
C 23	155.2	9.7	900	4	US-09-906-234-4
C 24	149	9.3	910	4	US-09-685-292-1
C 25	106.4	6.7	894	1	US-08-178-708-7
C 26	106.4	6.7	894	1	US-08-457-552-7
C 27	106.4	6.7	894	1	US-08-456-430-7

C 28	106.4	6.7	894	2	US-08-994-418-7
C 29	106.4	6.7	894	5	PCT-US95-00432-7
C 30	97.4	6.1	1309	6	5221624-4
C 31	97.4	6.1	1309	6	5221624-4
C 32	90.6	5.7	621	3	US-09-224-514A-1
C 33	90.6	5.7	621	6	5221624-31
C 34	90.6	5.7	621	6	5221624-31
C 35	89	5.6	621	3	US-09-224-514A-9
C 36	86.2	5.4	624	2	US-08-426-599B-3
C 37	78.4	4.9	624	2	US-08-426-599B-1
C 38	73.2	4.6	2051	1	US-08-482-037A-2
C 39	64.6	4.1	230	4	US-09-589-733C-28
C 40	64	4.0	1141	4	US-09-806-708B-22
C 41	60.8	3.8	1141	4	US-09-806-708B-22
C 42	60.8	3.8	640681	4	US-09-790-988-1
C 43	59.2	3.7	205044	4	US-09-949-016-15851
C 44	59.2	3.7	205044	4	US-09-949-016-15852
C 45	59.2	3.7	205044	4	US-09-949-016-15853

ALIGNMENTS

RESULT 1

US-08-482-037A-1/c
Sequence 1, Application US/08482037A
Patent No. 5801028
GENERAL INFORMATION:
APPLICANT: Ray Bressan and Paul M. Hasegawa
TITLE OF INVENTION: Osmotin Gene Promoter and Use Thereof
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Thomas Q. Henry
STREET: Bank One Tower, Suite 3700, 111 Monument Circle
CITY: Indianapolis
STATE: Indiana
COUNTRY: USA
ZIP: 46204-5137
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
COMPUTER: COMPAQ
OPERATING SYSTEM: MSDOS
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,037A
FILING DATE: June 7, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/476,243
FILING DATE: June 7, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/180,428
FILING DATE: January 12, 1994
APPLICATION NUMBER: 08/065,147
FILING DATE: May 20, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Thomas Q. Henry
REGISTRATION NUMBER: 28,309
REFERENCE/DOCKET NUMBER: 7024-8/PUR16CIPDIVII
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 634-3456
TELEFAX: (317) 637-7561
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3033 bases
TYPE: Nucleotide/Amino Acid
STRANDEDNESS: Double
TOPOLOGY: Linear
MOLECULE TYPE: Genomic DNA
US-08-482-037A-1

Query Match 30.0%; Score 479.2; DB 1; Length 3033;

[illegible]

RESULT 2

US-07-828-798C-4/c

US-07-023-750C-47C
; Sequence 4, Application US/07828798C

; Patent No. 5389609

GENERAL INFORMATION:

APPLICANT: WOLOSHUK, Charles P.

APPLICANT: Melchers, Leo S.

APPLICANT: Cornelissen, Bernardus J. C.

APPLICANT: Meulenhoff, Elisabeth J. S.

[illegible]

RESULT 3

```

US-08-315-868A-4/c
; Sequence 4, Application US/08315868A
; Patent No. 5856151
; GENERAL INFORMATION:
; APPLICANT: Woloshuk, Charles P.
; APPLICANT: Melchers, Leo S.
; APPLICANT: Cornelissen, Bernardus J. C.
; APPLICANT: Meulenhoff, Elisabeth J. S.
; APPLICANT: Sela-Buurlage, Marianne B.
; APPLICANT: Van Den Elzen, Petrus J. M.
; TITLE OF INVENTION: Antifungal Preparations, Process for
; TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with
; TITLE OF INVENTION: Decreased Susceptibility to Fungi

```

Query Match 27.0%; Score 430.2; DB 2; Length 883;
Best Local Similarity 84.1%; Pred. No. 9.2e-96;

[illegible]

RESULT 4

US-08-495-819B-4/c
; Sequence 4, Application US/08495819B
; Patent No. 6087161
; GENERAL INFORMATION:
; APPLICANT: Woloshuk, Charles P.
; APPLICANT: Melchers, Leo S.
; APPLICANT: Cornelissen, Bernardus J. C.
; APPLICANT: Meulenhoff, Elisabeth J. S.
; APPLICANT: Sela-Buurlage, Marianne B.
; APPLICANT: Van Den Elzen, Petrus J. M.
; TITLE OF INVENTION: Antifungal Preparations, Process for
; TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants
; TITLE OF INVENTION: with Decreased Susceptibility to Fungi
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Ladas & Parry
; STREET: 26 West 61st Street
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10023
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
; COMPUTER: IBM PC/XT/AT or compatibles
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/495,819B
; FILING DATE: 31-MAY-1995

COUNTRY: USA
ZIP: 10023
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM PC/XT/AT or compatibles
OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/495,819B
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/315,868
FILING DATE: 30-SEPT-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/828,798
FILING DATE: 06-APRIL-92
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/NL91/00089
FILING DATE: 31-05-91
ATTORNEY/AGENT INFORMATION:
NAME: Mass, Clifford J.
REGISTRATION NUMBER: 30086
REFERENCE/DOCKET NUMBER: U-010255-1
TELEPHONE: (212) 708-1800
TELEFAX: (212) 246-8959
TELEX: 233288
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 884
TYPE: Nucleotide
STRANDEDNESS: Double
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Nicotiana tabacum

US-08-495-819B-5
Query Match 27.0%; Score 430.2; DB 3; Length 884;
Best Local Similarity 84.1%; Pred. No. 9.2e-96;
Matches 497; Conservative 0; Mismatches 93; Indels 1; Gaps 1;
QY 46 GGTATCTTTGTTGAAAAATTTGAAAAAGACGTAGGACCAATGTTGGTGCAC 105
DB 605 GCATCTTTGTTGAAAAATTTGAAAAAGACGTAGGACCAATGTTGGTGCAC 546
QY 106 AATATTGTTGCTCCAAATGTTGACAAAGATTGTTACATCTCCGGGTACTTTAAGTT 165
DB 545 AATATTGTTGCTCCGAAATGTTGACAAAGATTGTTACATCTCCGGGTACTTTAAGTT 486
QY 166 GACCAAGGCATTCACATTTATTTGCGGTGCAATTTGAATTTGTTGGCAATTTCCCTCCAC 225
DB 485 CGCGGGGACATTCGCGGTATTTATTTAGCGGTACATGAATTTGCATGGCATTTCCCTCCAC 426
QY 226 TTGATTTAGTCGGGGGAAAGTCATCGGTATTTAAATTCATCACTAAAGAAATGTCCC 285
DB 425 TAGGTTTATGTCGGGGGAAAGTCATCGGAATTTGAATTCATCACTAAAGAAATGTCCC 366
QY 286 AGAATCTAAGTTGTTGAACCTGTTCCAAAGGCGTACTCGGCTAGGCTGTTTGGTGGTTGC 345
DB 365 AGAATCTAAGTTGTTGAACCTGTTCCAAAGGCGTACTCGGCTAGGCTGTTTGGTGGTTGC 306
QY 346 CCCACCCGGTGCATTCGAGGACACCAACCAATCACTACAGTCATGCACGAACCTCTACCAAG 405
DB 305 CCCACCCGGTGCATTCGAGGACACCAACCAATCACTACAGTCATGCACGAACCTCTACCAAG 246
QY 406 CACCATCGAAGTTACATTCAGTACGACCCCATATACCTGCGCATCGTAGTGCCTTAGCGG 465
DB 245 CAGCATTTGAAGTTTACAAATTTAGTACGCGGCCCATACACGTGGCATTTTAGTACCTCTGCGG 186
QY 466 CATCAATGACCCACATTTGGCCCCCATCGAAACGTCGG-CACCCGCTTTTCGGGGTTCGATG 524

185 CATTGATCACCAAGTTTGGCTCGATCGAGACGCGGCCACCGCTATGGTGTGACG 126
QY 525 CGGCCCAAAACGATGTATGGAAGTTGTTGGCTAGTCTCGATAGTGGACACATAAGTGAAG 584
DB 125 CGGCCCAAAACGTTGTACGACAGTTGTTTTCGACCTCGATAGTGGACACATAAGTGAAG 66
QY 585 TCACAAAGCAAGAGGAGGAGAAACAAAGAAAGATCTCAAGTAGCCCATGT 635
DB 65 TCACAAAGCAAGAGGAGGAGAAACAAAGAAAGATCTCAAGTTGCCCATGT 15
RESULT 8
US-09-589-733C-4/c
Sequence 4, Application US/09589733C
Patent No. 6677503
GENERAL INFORMATION:
APPLICANT: Bidney, Dennis L.
APPLICANT: Crasta, Oswald R.
APPLICANT: Duwick, Jon
APPLICANT: Lu, Xu
APPLICANT: Lu, Guihua
TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
TITLE OF INVENTION: Genes and their Uses
FILE REFERENCE: 5718-90
CURRENT APPLICATION NUMBER: US/09/589,733C
CURRENT FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: 60/140,646
PRIOR FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: 60/162,904
PRIOR FILING DATE: 1999-11-01
NUMBER OF SEQ ID NOS: 41
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 875
TYPE: DNA
ORGANISM: Helianthus annuus
US-09-589-733C-4

Query Match 10.7%; Score 170.4; DB 4; Length 875;
Best Local Similarity 59.7%; Pred. No. 5e-32;
Matches 325; Conservative 0; Mismatches 211; Indels 8; Gaps 2;
QY 49 ATCTTTGTTGCAAAAATTTGAAAAGACGTAGGACCAATGTTGGTGCACCAAT 108
DB 577 ATCTTTGTTGCAAAAATTTGAAAAGACGTAGGACCAATGTTGGTGCACCAAT 518
QY 109 ATTGTTGCTCCAAATGTTGACAAAGATTGTTACATCTCCGGGTACTTTAAGTTGAC 168
DB 517 ACTGATCAGTTTGTACACGGTGCAGGGTTATTGCAACCCGAGGAGCCGCTAACTCAC 458
QY 169 CAGGCAATTCACATTTATTTGCGGTGCAATTTGAATTTGTTGGCATTTCCCTCCACTTG 228
DB 457 CAGGCAATTCGCAATTTGATATCCGAGTACATGATATACCCCGGTGACCC-----AT 404
QY 229 GATTAGTCGGGGCGAAGTCATCGGTATTTAAATTCATCACTAAAGAAATGTCCCAGA 288
DB 403 TAGAATTTGGGTCTAAACACCATCGGCAATTTGAATTCGTCACAGAAATGTCAAAGA 344
QY 289 AATCTAAGTTGTTGAACTGTTGCAAGGCGTACTCGGCTAGGCTGTTTGGTGGTTGCCCC 348
DB 343 AATCAAGATTGTTGAACCTGTTTCAAGCGTACTCGGCAATTTGTTGGTGGGTACCAT 284
QY 349 ACCCGGTGCACTGAGGACACCAACCAATCACCAGTTCATGCAGAACTCTTACCAAGAC 408
DB 283 AGTTTGGCAATTTGAGGAGACCGTTGCAATCACCAGTCTGACACCTGCTCGCCCGAAGAC 224
QY 409 CATCGAATTCATCCAGTACGACCCCATATACCTGCAATCGTAGTGCCTTAGCGCAT 468
DB 223 CATCAAGTTTGAATTTGTTTCGGGGCCCATATACGGGCTCTCGTGTGTCAGTGCAGCGG 164
QY 469 CAATGACCCACATTTGGCCCCGATCGAAACGTCGCGCACCCGCTTTTCGGGGTTCGATGCCG 528
DB 163 TTAAGACCAAGTTTGGCTGAGTTAAGTTTGTGCGCGCCAC--CAGGACCGGACCAAGC 106

QY 529 CCAACGATGATGGACAGTGTTCGCTACCTCGATAGTGGCAGCATAAGTGAAGTCAC 588
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Db 105 CCAACCGTGTATGGACAGTGTTCGCTAATAGTGAACACGGCTGCTATGTATAGTCAA 46
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QY 589 AAAA 592
|||
Db 45 AAGA 42
|||

RESULT 9

US-08-181-271A-4/c
; Sequence 4, Application US/08181271A
; Patent No. 5614395
; GENERAL INFORMATION:
; APPLICANT: Ryale, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Moyer, Mary B.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Payne, George B.
; APPLICANT: Sperison, Christoph
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Uknes, Scott J.
; APPLICANT: Ward, Eric R.
; APPLICANT: Williams, Shericca C.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/181,271A
; FILING DATE: 13-JAN-94
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/678,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/632,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Elmer, James Scott
; REGISTRATION NUMBER: 36,129
; REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8614
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-181-271A-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 2.7e-28;
Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

QY 46 GGTATCTTTGTTGAAAAAATTGAAAAAGAACGTAGGACCACAT-----GGACCTTGGG 99
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Db 607 GGCATCTTTCTTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
|||
QY 100 TGCAACAATATTGTTGCTCCAAATGTGTACAAAGATTGTTACATCTCTCCGGGTACTT 159
|||
Db 547 TACAACAATATTCAATGGTTTTTATCAGTACATGGTTGTTACATCCACCTTGTGTTT 488
|||
QY 160 TAAAGTTGACCAGGGCATTCACCATTTATTTTCCGTGCAATTGAATTTGTGTGGCATTTCC 219
|||
Db 487 TCAACTGTGTGGGCATTGTTGTTAATAGTGTGTGTCATCTGAGATTACGACAT---- 432
|||
QY 220 CTCACATTGATTAGTCGGGGCGAAGTCATCGGTATATTAAATCCATCAACTAAAGNAA 279
|||
Db 431 -----CCTCCATTGGTCGGGCTGAAATTCATGGGGATGTTAAATCCATCAACAAGAGA 377
|||
QY 280 TGTCCCAAGAAATCTAAGTTGTTGAACGTGCAAGGGTACTCGGCTAGGGTGTGTTGTG 339
|||
Db 376 TGTGACAAAGTC---CTGATTGGTTGATTAAAGTCAAAATTCAGTAAAGTTAGTGTG 320
|||
QY 340 GTTTGCCCCCAGGGTGCATCGCAGGACACACCAATCACCAGTCAATGACGACGACCTC 399
|||
Db 319 CTTTTCCATAGCCTTGACACTCTAACATCCCGTTACAGTCTCCAGTCTCACAATTACCTC 260
|||
QY 400 TACGAGCACCATCGAAGTTACATCCAGTAGACCCCATATACCTGCCATCGTAGTGCCCC 459
|||
Db 259 GGCACATGCCATCGAAGTTGCAATTTGTTGACCCCAATTCGAGCCCTGGAGCTGTTCTGT 200
|||
QY 460 TAGCGCATCAATGACCCCATTTGGCCCGGATCGMAACGTCGCGACCGCTTCGGGGT 519
|||
Db 199 GGTTACATTAATGCTCCAAAGATTGGCCTGAGTCAGCCGCTCCCTCCACCT--GGAGA 142
|||
QY 520 CGATGCCGCCCAACGATGATGGACAGTTGTTGCGTACCTCGATAGTGGCAGCATAGT 579
|||

Db 141 GCGCGGCCAGCTGTAGTGCATTTGTGACATGTGCAAAAGTGGCAGCATGAGT 82

QY 580 GAAAGTCACAAA 591

Db 81 AACAGCTACAAA 70

RESULT 10

US-08-449-315-4/c

; Sequence 4, Application US/08449315

; Patent No. 5650505

; GENERAL INFORMATION:

; APPLICANT: Ryals, John A.

; APPLICANT: Alexander, Danny C.

; APPLICANT: Beck, James J.

; APPLICANT: Duesing, John H.

; APPLICANT: Friedrich, Leslie B.

; APPLICANT: Goodman, Robert M.

; APPLICANT: Harms, Christian

; APPLICANT: Meins, Jr., Frederick

; APPLICANT: Montoya, Alice

; APPLICANT: Moyer, Mary B.

; APPLICANT: Neuhaus, Jean-Marc

; APPLICANT: Payne, George B.

; APPLICANT: Sperison, Christoph

; APPLICANT: Stinson, Jeffrey R.

; APPLICANT: Uknes, Scott J.

; APPLICANT: Ward, Eric R.

; APPLICANT: Williams, Shericca C.

; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC

; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF

; NUMBER OF SEQUENCES: 106

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: CIBA-GEIGY Corporation

; STREET: 7 Skyline Drive

; CITY: Hawthorne

; STATE: New York

; COUNTRY: USA

; ZIP: 10532

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/449,315

; FILING DATE: 24-MAY-1995

; CLASSIFICATION: 800

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/181,271

; FILING DATE: 13-JAN-94

; APPLICATION NUMBER: US 08/093,301

; FILING DATE: 16-JUL-1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/937,197

; FILING DATE: 6-NOV-1992

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/678,378

; FILING DATE: 1-APR-1991

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/305,566

; FILING DATE: 6-FEB-1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/165,667

; FILING DATE: 8-MAR-1988

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/042,847

; FILING DATE: 6-APR-1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/632,441

; FILING DATE: 21-DEC-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/425,504

; FILING DATE: 20-OCT 1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/848,506

; FILING DATE: 6-MAR-1992

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/768,122

; FILING DATE: 27-SEP-1991

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/580,431

; FILING DATE: 7-SEP-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/368,672

; FILING DATE: 20-JUN-1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/329,018

; FILING DATE: 24-MAR-1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/045,957

; FILING DATE: 12-APR-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Elmer, James Scott

; REGISTRATION NUMBER: 36,129

; REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (919)541-8614

; TELEFAX: (919)541-8689

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 900 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

US-08-449-315-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;

Best Local Similarity 60.5%; Pred. No. 2.7e-26;

Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

QY	46	GGTATCTTTGTTTGA	AAAGTGGACACACAT-----GGACCTTGGG	99
Db	607	GGCATCTTCTTAA	AAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTG	548
QY	100	TGCAACAATATGTT	GCCTCCAAATGTGGPACAAAGATTGTTACATCTCCGGGTACTT	159
Db	547	TACAACAATATTC	ATGTTTATCACAGTACATGGGTGTTTACATCCACCTTGTGTTT	488
QY	160	TAAGTTGACGAGGC	ATTCACATTTATTTGCGGTGCATTTGAATGTTGGCATTTCC	219
Db	487	TCAACTGTGCTGG	GCATTTTCGTTAATAGGTGCTGTGCATCTGAGATTACGACAT	432
QY	220	CTCCACTTGGATT	AGTCGGGCGAAAGTCATCGGTATATAATCCATCAACTAAAGAAA	279
Db	431	-----CTCCAT	TGTCGGGCTGAATCCATGGGATGTTAAATCCATCAACAGAGA	377
QY	280	TGTCACGAAATCT	AAAGTTGTAATCGGTCCAAAGGGGTACTCGGCTAGGTGTTGGTG	339
Db	376	TGTCACAAAGTC	---CTGATTGGGTTGATTAAGTGCAAAATTCAGCTAAAGTGTAGGTG	320
QY	340	GTTCGCCCCCGGT	GCAGTGCAGGACACACACATCACCAGTCATGACGACACGACCTC	399
Db	319	CTTTTCCATAGCT	TGACACTCTAACATCCCGTTACAGTCTCCAGTCTCACAATTAACCTC	260
QY	400	TACCAGCACCAT	CGAAGTTACATCCAGTACACACCCCATATACCTGCCATCTAGTGCCCC	459
Db	259	GGCCACTGCCAT	CGAAGTTGCAATTTGTTACACCCCAATCGAGCCCTGGACTGTTCTTG	200
QY	460	TAGCGCATCAAT	GACCCACATTTTGGCCCCCATCGAAACGTCGGGACCCGCTTGGGGGT	519
Db	199	GGTTCACTTAAT	GTCTCAAGATTGGGCTGAGTGAGCGCGCTGCCTCCACT--GGAGA	142
QY	520	CGATGCCGCCCA	AAACGATGTATGTCGATGTTGTTGGTACCTCGATAGTGGCAGCATAGT	579

Db 141 GGCGCGCGCCGAGACTGTGAGTGCAATTTGTTGCAATGTCAAAGTGGCAGCATGAGT 82
Qy 580 GAAAGTCACAAA 591
Db 81 AACAGCTACAAA 70

RESULT 11

US-08-444-803-4/c
; Sequence 4, Application US/08444803
; Patent No. 5654414
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Moyer, Mary B.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Payne, George B.
; APPLICANT: Sperison, Christoph
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Uknes, Scott J.
; APPLICANT: Ward, Eric R.
; APPLICANT: Williams, Shericea C.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: -IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/444,803
; FILING DATE: 19-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/181,271
; FILING DATE: 13-JAN-94
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/678,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/632,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Elmer, James Scott
; REGISTRATION NUMBER: 36,129
; REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8614
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-444-803-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 2.7e-28;
Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

Qy 46 GGTATCTTTGTTGAAAAAATTCGAAAAAGACGTAGGACACCAT-----GGACCTTGGG 99
Db 607 GGCATCTTTCTTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
Qy 100 TGCAACAAATATTGTGTCTCCAAATGTGTGTAAGGATTGTACATCTCTCCGGGTACTT 159
Db 547 TACAACAAATATTCAATGGTTTTTATTCACAGTACATGGTTGTGTACATCCACCTTGTGTT 488
Qy 160 TAAAGTTGACCCAGGCGCATTCACCATTTATTTGCCGTGCAATTGAATTTGTGTGGCAATTCC 219
Db 487 TCAACTGTGCTGGGCATTGTTCTGTTAATAGGTGCTGTGCATCTGAGATTACGACAT--- 432
Qy 220 CTCACATTGGATTAGTCGGGGCGAAAGTCAATCGGTATATTAAATCCATCACTAAAGAAA 279
Db 431 -----CCTCCATTGGTGGGCTGAAATTCATGGGGATGTTAAATCCATCAACAAGAGAGA 377
Qy 280 TGTCCCGCAAAATCTAAGTTGTTGAACTGTGTCGCAAGGGGTACTCGGCTTAGGTGTTGGTG 339
Db 376 TGTCGACAAAGTC---CTGATTGGTTGATTAGTGCAAAATTGAGCTAAAGTGTAGGTG 320
Qy 340 GTTTGCCCCACCCGGGTGCACTGCAGGAGCACACCAAAATCACCAGTCAATGACGAAACCTC 399
Db 319 CTTTTCATAGCCTTGACACTCTAAACATCCCGTTACAGTCTCCAGTCTCACAATTAACCTC 260
Qy 400 TACAGCACCATCGAAGTTACATCCAGTACGACCCCATATACCTGCCATCGTAGTGCCCC 459
Db 259 GGCCACTGCGCATCGAAGTTGCAATTTGGTTCCGACCCCAATTCGAGCGCTGGAAGCTGTTCTG 200
Qy 460 TAGCGCATCAATGACCCACATTTGGCCCGCGATTCGGAACGTCGCGACCTTCGGGGT 519
Db 199 GGTTCACATTAATGCTCCAAAGATTGGCCTGAGTCGAGCCGCGCTCCCTCCACT--GGAGA 142
Qy 520 CGATGCCGCCCAAAACGATGTATGGACAGATTGTTGTCGTACCTCGATAGTGGCAGCATAGT 579

Db 141 GCGCGGCCAGAGTGTGTAGTGTGCAATTTGTCATGTCACAAAGTGCCAGCATGAGT 82
QY 580 GAAAGTCACAAA 591
Db 81 AACAGCTACAAA 70

RESULT 12

US-08-449-043-4/c

Sequence 4, Application US/08449043

Patent No. 5689044

GENERAL INFORMATION:

APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Spierison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: 24-MAY-1995
CLASSIFICATION: 800
PRIOR APPLICATION NUMBER: US/08/449,043
FILING DATE: 24-MAY-1995
PRIOR APPLICATION DATA:
FILING DATE: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-449-043-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;

Best Local Similarity 60.5%; Pred. No. 2.7e-28;

Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

QY 46 GGTATCTTTTGTGAAAAAATGGAAAAAGACGTAGGACCCACAT-----GGACCTTGGG 99
Db 607 GGCATCTTTCTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
QY 100 TGCACAAATATTGTTGCTCCTCCAAATGTGGTACAGGATTTGTTACATCTCGGGTACTT 159
Db 547 TACAACAATATTCTATGTTGTTTTTATCACAGTACATGGGTTGTTACATCCACCTTGTGTT 488
QY 160 TAAGTTGACAGGCGCATTCACCATTTATTTGCGGTGCATTTGAATTTGTGGCATTTCC 219
Db 487 TCAACTGTGCTGGGCATTTGTTTAAAGTGTGCTGTGCATCTGAGATTACGACAT---- 432
QY 220 CTCCACTTTGATTAGTCGGGGCGAAAGTCATCGGTATATTAATCCATCAACTAAAGAAA 279
Db 431 -----CCTCCATTTGTCGGGCTGAATTCATGGGGATGTTAAATCCATCAACAAGAGAGA 377
QY 280 TGTCCAGAAATCTAAGTTGTTGAACTGGTCCAGGCGTACTCGGCTAGGGTGTGTTGTTG 339
Db 376 TGTCCAGAAAGTC---CTGATTGGGTTGATTAAAGTGCAAAATTCAGCTAAAGTGTGTTG 320
QY 340 GTTTGCCCCCGGTCGACCTGCGAGGACACACCAATCACCAGTCATGACGACGACGACCTC 399
Db 319 CTTTTCATAGCCTTGACACTCTAACATCCCGTTACAGTCTCCAGTCTCACAATTAACCTC 260
QY 400 TACCAGCACCATCGAAGTTACATCCAGTACGACCCCATATACCTGCCATCTAGTAGCCCC 459
Db 259 GGCACATGCCATCGAAGTTGCAATTTGTTGACCCCAATCGAGCCCTGGACTGTTCTCTG 200
QY 460 TAGGGGATCAATGACCCACATTTGGCCCCGATCGAAACGTCGGGACCCGCTTCGGGGT 519
Db 199 GTTTCACATTAATGCTCCAGATTGGGCTGAGTCGAGCGCGCTGCTCCACCT--GGAGA 142
QY 520 CGATGCCGCCCAACGATGTATGGACAGTTTGTTCGTGTAACCTCGATAGTGTGGCAGCATAGT 579

Db 141 GGCGGCGCCAGACTGTAGTGCAATTTGTTGACAATGTCAAAGTGGCAGCATGAGT 82
Qy 580 GAAAGTCACAAA 591
Db 81 AACAGCTACAAA 70

RESULT 13

US-08-456-265A-4/c
; Sequence 4, Application US/08456265A
; Patent No. 5767369
; GENERAL INFORMATION:
; APPLICANT: Alexander, Danny C.
; APPLICANT: Ryals, John A.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Stinson, Jeffrey R.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 520 White Plains Road, P.O. Box 2005
; CITY: Tarrytown
; STATE: New York
; COUNTRY: USA
; ZIP: 10591
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/456,265A
; FILING DATE: 31-MAY-95
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/181,271
; FILING DATE: 13-JAN-1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/678,378
; FILING DATE: 1-APR-1991
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/632,441
; FILING DATE: 21-DEC-1990
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT-1989
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIORITY APPLICATION DATA:

Query Match 9.7%; Score 155.2; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 2.7e-28;
Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

Qy 46 GGTATCTTTTGGAAAAATTTGGAAAAAGACCTAGACACCAT-----GGACCTTGGG 99
Db 607 GGCATCTTTTCTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCATTTG 548
Qy 100 TGCAACAATATTGTGTCTCCAAATGTGTACAAGGATTGTACATCTCTCCGGGTACTT 159
Db 547 TACAACAATATTCAATGGTTTTTATCACAGTACATGGTTGTACATCCACCTTGTGTT 488
Qy 160 TAAAGTTGACCGGCAATTCACATTTATATTTCGCCGTGCAATGAATGTGTGGCATTTCC 219
Db 487 TCAACTGTGTGGGCATTTGTCGTTAATAGGTGCTGTGCATCTGAGATTACGACAT---- 432
Qy 220 CTCCACTTGGATTAGTCGGGCGGAAAGTCATCGGTATATTAAATCCATCACTAAAGAA 279
Db 431 -----CCTCCATTTGGTGGGCTGAAATTCATGGGGATGTTAAATCCATCAAGAGAGA 377
Qy 280 TGTCCAGAAATCTAAGTTGTTGAACTGTGTCGAAGGCGTACTCGGCTAGGGTGTGTTGGTG 339
Db 376 TGTGCAAAAGTC---CTGATTGGTTGATTAAAGTCAAAATTCAGCTAAAGTGTAGGTG 320
Qy 340 GTTTGCCCCACCGGTGCACTGCAGGACACCAACAATCACCAGTCATGACGAACTC 399
Db 319 CTTTTCATAGCCTTGACACTCTAAACATCCCGTTACAGTCTCCAGTCTCAAAATTACCTC 260
Qy 400 TACGAGCACCATGAAATTTACATCCAGTACGACCCCATATACCTGCCATCGTAGTGCCTC 459
Db 259 GGCCACTGCCCATGAAATTTGCAATTTGGTTCCGACCCCAATTCGAGGCTTGGACTGTTCTG 200
Qy 460 TAGGCGCATCAATGACCCCAATTTGGCCCGCGATCGAAACGTCGCGACCCGCTTTCGGGGT 519
Db 199 GGTTCATATTAAATGCTTCAAGATTGGCTGAGTGGAGCCGCTGCTCCACCT--GGAGA 142
Qy 520 CGATGCGGCCCAAAACGATGTATGGACAGTTGTTGCGTACCTCGATAGTGGCAGCATAGT 579
Db 141 GGCCGGGCGCCAGACTGTGTAGGTGCAATTTGTTGACAAATGTCAAAGTGGCAGCATGAGT 82
Qy 580 GAAAGTCACAAA 591
Db 81 AACAGCTACAAA 70

RESULT 14

US-08-456-416-4/c
; Sequence 4, Application US/08455416
; Patent No. 5777200

GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,416
FILING DATE: 31-MAY-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
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FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
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APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
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APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
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APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRADEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-455-416-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 2.7e-28;
Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

QY 46 GGTATCTTTTGTGAAAAAATGGAAAAAGACGTAGGACCCACAT-----GGACCTTGGG 99
DB 607 GGCATCTTTCTTAAAAAATCTCGACAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
QY 100 TGCACAATATTTGTTGCTCCTCAAAATGGGTACAGGATTTGTTACATCTCTGGGTACTT 159
DB 547 TACAACAATATTTGTTGTTTATATCAAGTACATGAGGTTGTTTACATCCACCTTGTGTT 488
QY 160 TAAGTTGACAGGCGCATTCACATTTATTTTGGTGCATTTGAATTTGTTGGCATTTCC 219
DB 487 TCAACTGTGCTGGGCATTTGTTTAAATAGTGTCTGTGCATCTGAGATTACGACAT---- 432
QY 220 CTCCACTTTGGATTAGTCGGGGCGAAAGTCATCGGTATATTAATCCATCAACTAAAGAAA 279
DB 431 -----CCTCCATTTGTCGGGCTGAATTCATGGGGATGTTAAATCCATCAACAAGAGA 377
QY 280 TGTCCAGAAATCTAAGTTGTTGAACTGGTCCAGGCGTACTCGGCTAGGGTGTGTTGGTG 339
DB 376 TGTCCAGAAAGTC---CTGATTGGGTTGATTAAAGTGCAAAATTCAGCTAAAGTTAGGTG 320
QY 340 GTTTGCCCCACCGGTGCATCTGCAGGACACCAACCAATCACCAGTCATGCACGAACCTC 399
DB 319 CTTTTCATAGCCTTGACACTCTAACATCCCGTTACAGTCTCCAGTCTCACAATTACCTC 260
QY 400 TACCAGCACCATCGAAGTTTACATCCAGTACGACCCCATATACCTGCCATCGTAGTGCCCC 459
DB 259 GGCCTACTGCCATCGAAGTTGCAATTTGTTCCACCCCAATCGAGCTGGACTGTTCTCTG 200
QY 460 TAGGGCATCAATGACCCACATTTGGCCCCCATCGAAACGTGCGGACCCGCTTCGGGGT 519
DB 199 GGTTCACATTAATGCTCCAGATTTGGCTGAGTGGAGCGGCTGCTCCACCT--GGAGA 142
QY 520 CGATCGCCGCCCAACGATGATGGACAGTGTGTTGCTACCTCGATAGTGAGGACATAAGT 579
DB 141 GCGCGCGGCCGACACTGTGTAGGTGCAATTTGTGACATGTCAAAAGTGGCAGCATGAGT 82
QY 580 GAAAGTCACAAA 591
DB 81 AACAGCTACAAA 70

RESULT 15
US-08-455-244-4/c
; Sequence 4, Application US/08455244
; Patent No. 5789214

GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericea C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,244
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/578,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
US-08-455-244-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 2.7e-28;
Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

QY 46 GGTATCTTTGTTGAAAAAATTGAAAAAGAACGTAGGACCACAT-----GGACCTTGGG 99
DB 607 GGCATCTTTCTTTAAAAAATCTCGACAAATCAGTAGGCCACATGATCCAGGCCCATTTG 548
QY 100 TGCAACAATATTGTTGCTCCCAATGTGTGTACAAAGATTGTTACATCTCCCGGTACTT 159
DB 547 TACAACAATATTCAITGGTTTTTATCACAGTACATGGTTGTTTACATCCACCTTGTGTT 488
QY 160 TAAAGTTGACGAGGCAATCCACATTTATATTTCGCGTGCATTTGAATTTGTGGCATTTCC 219
DB 487 TCAACTGTGCTGGGCATTTGTTGTTAATAGTGTCTGTGCATCTGAGATTACGACAT---- 432
QY 220 CTCACATTGATAGTCGGGGCGAAAGTATCGGTATATTAAATCCATCAACTAAAGAAA 279
DB 431 -----CCTCCATTGGTGGGCTGAATTTCCATGGGGATGTTAAATCCATCAACAAGAGA 377
QY 280 TGTCCCAAGAAATCTAAGTTGTTTGAACCTGGTCCCAAGGCGTACTCGGCTAGGTTGTTGTTG 339
DB 376 TGTGACAAAGTC---CTGATTGGTTGATTAAGTGCAAATTAGCTAAAGTTGTTAGTG 320
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DB 319 CTTTTCATAGCCTTGACACTCTAACATCCCGTTACAGTCTCCAGTCTCACAATTACCTC 260
QY 400 TACAGCACCATCGAAGTTTACATCCAGTAGCAGCCCATATACCTGCCATCGTAGTGCCCC 459
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QY 460 TAGCGCATCAATGACCCACATTTGGCCCCCGATCGAAACCTCGGACACCCGCTTTCGGGT 519
DB 199 GGTTCACATTAATGCTCCAAAGATTGGCTGAGTGGCCGCCCTGCTCCACCT--GGAGA 142
QY 520 CGATGCCGCCCAACGATGTATGGACAGTTGTTGCGGTACCTCGATAGTGCAGCATAAGT 579
DB 141 GGCCGGGGCCGACACTGTGTAGGTGCATTTGTTGACAAATGTCAAAGTGGCAGCATGAGT 82
QY 580 GAAAGTCACAAA 591
DB 81 AACAGCTACAAA 70

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